and SANITARY CHEMICALS

1950 BLUE BOOK and Catalog Edition

Annual Buyers' Guide

for Manufacturers and Jobbers of Soaps, Detergents, Chemical Specialties, Janitor Supplies and Equipment.



TRITON X-100 does make a difference in products-and profits.

Here is how it works. Take a balanced blend of alkali cleaners. Add from three to five percent of TRITON X-100 during the mixing process. It's as simple as that and inexpensive, too.

The result—a better cleaner—one with exceptional ability to emulsify grease and remove oily deposits from hard surfaces.

That's not all. TRITON X-100 makes your cleaner sneeze-proof. It also gives you a more uniform blending of all the ingredients in your formulation.

TRITON X-100 is one member of the famous TRITON family that can help you make better products. Whether you are in the business of manufacturing cleaners or cosmetics—emulsion concentrates or household detergents, you will find it's good business to try the TRITONS.

Detailed information and typical formulations are yours for the asking.

RELY ON ROHM & HAAS PRODUCTS

Germicides — The HYAMINES — outstanding examples of quaternary ammonium germicides having wide application in the field of sanitary chemicals.

Insecticides — RHOTHANE and DDT Formulations; LETHANE Insecticidal concentrates.

TRITON, HYAMINE, RHOTHANE, LETHANE are trade-marks, Reg. U. S. Pat. Off. and in principal foreign countries.

CHEMICALS



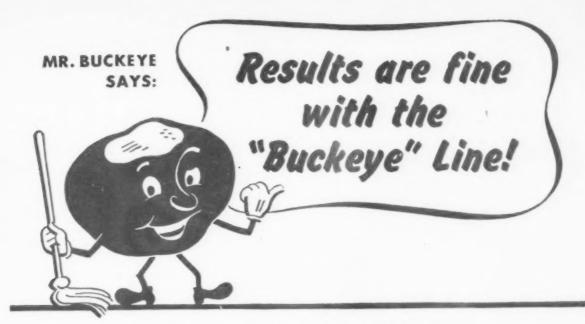
FOR INDUSTRY

ROHM & HAAS COMPANY

WASHINGTON SQUARE, PHILADELPHIA 5, PA.

Representatives in principal foreign countries

1950



Here are the "BUCKEYE" SANITARY MAINTENANCE PRODUCTS that will add to YOUR profits:

Oil Soaps

Liquid Scrubbing Soaps

Base Soaps for Liquid Hand Soaps

and Scrubbing Soaps

Floor Waxes

Furniture Cream and Polish

Pine-Jell Soap

Insecticides

Synthetic Powder Car or Floor Wash

Paste Type Mild Abrasive Cleaner

De-Greasing Compounds

Liquid Toilet Soaps

Deodorant Blocks

Floor Seal

Gym Finish

Disinfectants

Metal Polish

Bowl Cleaner

Fly Spray

U.S.P. Surgical Green Soaps

"DYSEPT" ANTISEPTIC LIQUID SOAP

containing HEXACHLOROPHENE

"DYSEPT"

HAND LOTION

containing HEXACHLOROPHENE

Available through "BUCKEYE" Distributors

THE DAVIES-YOUNG SOAP COMPANY

BOX 995 •

DAYTON 1, OHIO

Pyrenones*

Safe...Effective... Economical bases for *your*Insecticides

For these and other fields—DAIRY • LIVESTOCK • FOOD PROCESSING
FOOD HANDLING AND STORAGE • AEROSOLS • HOUSEHOLD

When Pyrenones were first introduced in 1945, many formulators looked upon them as "luxury" insecticides. Their freedom from toxicological hazards, skin irritants and unpleasant odors were accepted as important "pluses"; but formulators felt they couldn't afford the somewhat higher cost.

Since then, the picture has changed radically and rapidly. In one type of insecticide after another, formulators have come to look upon the use of Pyrenones as an economic necessity. Today more than 95 per cent of all aerosols, both high pressure and low, contain Pyrenones. And look at the rapid rise in the use of Pyrenones in dairy sprays, in food plant and warehouse sprays and in industrial insecticides.

The real cost of Pyrenones is the thing to watch for. Their high rate of knockdown and the low concentrations required

for final kill often make them less costly to use than other insecticides. Their compatibility with other insecticides is another factor. Of even greater dollars-and-cents importance are the elements of safety and convenience they can bring to your finished insecticide — elements which give you a competitive edge that shows up in *increased profits and steadier sales*.

Pyrenones are suitable for use in water emulsions...oil-type sprays...wettable powders...and dusts. We'll be glad to give you time-saving help on formulation — including suggested labeling and sample ingredient statements. Just let us know which end uses for Pyrenones interest you. Our representatives will be happy to discuss with you in person the use of Pyrenones in your present line — or the possibility of new products you might add to your line.

"Quick Facts about Pyrenones," a handy reference guide filled with condensed product and end-use data for formulators of all types of insecticides, is yours for the asking. Write today for your free copy of this valuable Pyrenone fact folder.

SPECIFICATIONS FOR THE MOST COMMONLY USED PYRENONE CONCENTRATES

		Ingredient grams/100		Active	ngredient by Weigh					1		
PRODUCTS	Pyreth-	Piperenyl Butexide (Technical)	Piperanyl Butozide	Pyreth-	Piperonyl Butoxide (Technical)	Piperanyl Butoxide	Specific Gravity at 20°/20°C	Weight per gal. @ 20°C	Color (Gardner- Holt Stds.1933)	Approx.	Min. Solu- bility in Petroleum Base Oil	Freon Insolu- bles (Max.)
Pyrenone Roach Spray Concentrate	1.2	6.0	-	1.49	7.48	_	.802 (±.005)	6.67	9.5-10.5	180-190°F	100%	-
Pyrenene K.D. Concentrate	1.2	3.0	_	1.50	3.76	-	.798 (±.005)	6.62	8.5-9.5	180-190°F	100%	-
Pyrenone Aerosol Concentrate 40-5	-	_	-	5.0	40.0	~ -	.903 (±.015)	7.51	12-13	180-190°F	100%	0.3%
Pyrenone Aerosol Concentrate 30-6	_		-	6.0	30.0	-	.883 (±.015)	7.35	12-14	188-192°F	100%	-
Pyranone Aerosol Concentrate 20-8	-	-	-	8.0	20.0	-	.865 (±.010)	7.20	12-14	180-190°F	100%	0.4%
Pyrenone O.T. 50-5	5.0	50.0	-	5.31	53.19	-	(± .025)	7.82	12-14	200-215°F	100%	-
Pyrenane R.E. 50-5	5.0	-	50.0	5.26	-	52.63	.95 (±.03)	7.65- 8.15	Dark Amber	180-200°F	Cloudy to Clear	-
Pyrenene R.E. 60-3	3.0		60.0	3.12	-	62.50	.96 (±.03)	7.74- 8.24	Dark Amber	180-200°F	Cloudy to Clear	-
Pyrenene R.E. 66-5	-	-	-	5.0	-	66.67	.982 (±.03)	8.2	Dark Amber	180-200°F	Cloudy to Clear	-
Pyrenene #20 New	0.5	4.0	-	0.62	5.03	-	.795 (±.005)	6.61	9-10	180-190°F	100%	-



Other Insecticide Products

Piperonyl Butoxide Piperonyl Cyclonene Pyrethrum Rotenone Triple Mix Repellent-Liquid and Cream

CPR-Liquid and Dust

*Reg. trade-mark of U.S.I.

ISTRIAL CHEMICALS, INC.

60 East 42nd St., New York 17, N. Y.

Branches in all principal cities

In Canada: Standard Chemical Co., Ltd., 99 Vanderhoof Avenue, Leaside, Toronto 17, Ont.

1950 BLUE BOOK

and Catalog Edition of SOAP & SANITARY CHEMICALS

AN ANNUAL BUYERS GUIDE,
DIRECTORY AND REFERENCE
VOLUME FOR MANUFACTURERS,
CONVERTERS AND JOBBERS OF
SOAPS, DETERGENTS, INSECTICIDES, DISINFECTANTS, POLISHES, CLEANERS, CHEMICAL SPECIALTIES, JANITOR SUPPLIES
AND EQUIPMENT.

Twenty-Second Edition

ISSUED ANNUALLY BY

MacNair-Dorland Company

254 West 31st Street

New York 1, N. Y.

SOAP DISPENSERS

Proven in the field of **Better** products

For over half a century Moore Bros. Co. has brought to the jobber the finest in liquid, lather, and powder soap dispensers. Yes, for ANY type of soap dispenser the jobber can be sure of the best with a Moore product.

Remember . . . there is a Moore Soap Dispenser for every type of installation. Moore Bros. also features the best in Gravity Systems—liquid or lather, with the finest engineered soap valve you can buy. Be sure of quality, performance, and dependability with MOORE BROS. COMPANY.



MOORE BROS. CO., 100 WARREN ST., NEW YORK 7, N. Y.

Foreword

COR over twenty years, the annual Blue Book and Catalog Edition of SOAP & SANITARY CHEMICALS. known in brief as the SOAP BLUE BOOK, has been the standard reference buying guide for manufacturers, converters, repackers and distributors of soaps, cleansers, detergents, insecticides, disinfectants, floor waxes and polishes, and allied chemical specialties, including janitor supplies and accessories. Always, we have received important assistance each year from the regular readers of SOAP & SANITARY CHEMICALS, and suppliers as well, in making and keeping the listings as accurate and up-to-date as possible.

If your firm is not listed in the BLUE BOOK, and should be, we want to know it as we desire to make and keep the listings complete and representative. But, please bear several things in mind in regard to listing your firm, especially under bulk and private brand finished products. The lists are not intended

to be complete lists of all suppliers of such products, only actual producers selling to the trade. Those who sell solely or chiefly to consumers are deliberately not listed here. This BLUE BOOK is designed to be used by the trade, not by consumers, and hence listings are restricted to those who specialize in selling to the trade.

In addition to listings of suppliers of materials and equipment, the appendix of the BLUE BOOK gives in condensed form various specifications, government and otherwise, for a number of widely purchased soaps, cleansers, polishes, and allied specialties. Also are given data regarding trade associations serving the field, as well as other pertinent information.

Now that you have received this 1950 Edition of the BLUE BOOK, discard your 1949 and any previous issues. They are now out of date.

THE PUBLISHERS

For your complete needs Nationwide

ALKALIS PHOSPHATES

CAUSTIC POTASH Liquid 45-50% Flake and Solid 88-92%

CAUSTIC SODA Liquid 50% Standard and Rayon Grades Liquid 70-73% Standard Grade Flake and Solid

SODA ASH

ACID SODIUM PYROPHOSPHATE
DISODIUM PHOSPHATE
MONOSODIUM PHOSPHATE
SODIUM TRIPOLYPHOSPHATE

TETRAPOTASSIUM PYROPHOSPHATE
TETRASODIUM PYROPHOSPHATE

TETRASODIUM PYROPHOSPHATE CRYSTALS

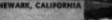
MONOPOTASSIUM PHOSPHATE

DIPOTASSIUM PHOSPHATE

TRIPOTASSIUM PHOSPHATE

PHOSPHORIC ACID 75%

DRY MIXTURES CONTAINING PHOSPHATES, ALKALIS AND DETERGENTS FORMULATED TO YOUR SPECIFICATION





POCATELLO, IDAHO

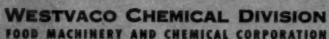
BADT WEST



WESTVACO, WYOMING



OUTH CHARLESTON, W. VIRGINIA



GENERAL OFFICES - 405 LEXINGTON AVENUE, NEW YORK 17
CNICAGO, ILL - CLEVELAND, ONIO - CINCINNATI, ONIO
ST. LOUIS, MO. - LOS ANGELES, CALIF. - NEWARK, CALIF.



ADTEDET MEW HEREN

Buyers' Guide Section

Listed on the following pages in alphabetical order are leading sources of supply for raw materials, equipment, and containers, and also bulk and private brand finished products and accessories bought by converters, repackers, and janitor supply and sanitary supply jobbers.

1950 BLUE BOOK Edition
of
SOAP & SANITARY CHEMICALS

THE GLYCOLIZED VAPOR-SPRAY THAT KILLS ODORS . . . AIR-BORNE GERMS



Manufactured by WOODLETS INCORPORATED Portland, Pennsylvania

ABRASIVES AND FILLERS (Pumice, Silica, Feldspar, Bentonite, Clays, etc.)

ABRASIVES AND FILLERS (Pumice, Silica, Feldspar, Bentonite, Clays, etc.)

American Colloid Co., Merchandise Mart Plaza, Chicago Aluminum Co. of America, Gulf Bldg., Pittsburgh, Pa. Attapulgus Clay Co., 210 W. Washington Sq., Phila. California Industrial Minerals Co., Friant, Calif. Carolina Pyrophyllite Co., 10 E. 40th St., N. Y. 16 Chas. B. Chrystal Co., 53 Park Pl., N. Y.

Dicalite Div., 612 S. Flower St., Los Angeles, Cal. Filtrol Corp., 634 S. Spring St., Los Angeles, Calif. K. F. Griffiths Co., 110 E. 42nd St., N. Y.

Goris & Co., 8124 S. Hoyne Ave., Chicago Harshaw Chemical Co, 1945 E. 97th St., Cleveland 6 Heckathorn & Co., Richmond, Calif. Imperial Prods. Co., 1600 Fountain St., Phila.

Johns-Manville Corp., 22 E. 40th St., N. Y.

Monsanto Chem. Co., 1700 S. 2nd St., St. Louis National Sawdust Co., 69 N. 6th St., Los Angeles Pacific Coast Pumice Co., 188 W. 6th St., Los Angeles Pacific Coast Pumice Co., Bishop, Calif. Philadelphia Quartz Co., Public Ledger Bldg., Independence Sq., Phila. 6

Pumice Corp. of America, Grants, N. M.

Jas. H. Rhodes & Co., 157 W. Hubbard St., Chicago Wm. R. Rogers, 72 Park St., Beverly, Mass.

L. A. Salomon & Bro., 216 Pearl St., N. Y.

F. E. Schundler & Co., Inc., 524 Railroad St., Joliet, Ill. Southeastern Clay Co., Aiken, S. C.

Tamms Silica Co., 229 N. La Salle St., Chicago United Clay Mines Corp., 101 Oakland St., Trenton, N. J. R. T. Vanderbilt Co., 230 Park Ave., N. Y.

Chas. A. Wagner Co., 813 Callowhill St., Phila.

Whittaker Clark & Daniels, 260 W. B'way, N. Y.

MCIDS (Sulfuric, Muriatic, Nitric, Acetic, Etc.)

ACIDS (Sulfuric, Muriatic, Nitric, Acetic, Etc.)

(see also Dealers)

American Cyanamid & Chem. Corp., 30 Rockefeller Plaza, N. Y. Atlas Powder Co., Wilmington, Del.

J. T. Baker Chemical Co., Phillipsburg, N. J.
Blockson Chem. Co., Joliet, Ill.
Carbide & Carbon Chemicals Corp., 30 E. 42nd St., N. Y.
John A. Chew, Inc., 60 E. 42 St., N. Y. 17
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
General Chemical Div., Allied Chem. & Dye Corp.,
40 Rector St., N. Y.
Hercules Powder Co., 929 King St., Wilmington, Del.
Hooker Electrochemical Co., Niagara Falls, N. Y.
(Muriatic) More Electrochemical Co., Niagara Falis, N. 1.
(Muriatic)
Innis, Speiden & Co., 117 Liberty St., N. Y.
Koppers Co., Koppers Bldg., Pittsburgh, Pa.
A. R. Maas Chem. Co., 4570 Ardine St., So. Gate, Calif.
Mallinckrodt Chemical Wks., St. Louis 7
Mathieson Chem. Corp., 10 Light St., Baltimore 18
Merck & Co., Rahway, N. J.
Michigan Chem. Corp., St. Louis, Mich.
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis
Niagara Alkali Co., 60 E. 42nd St., N. Y.
Oronite Chem. Co., 38 Sansome St., San Francisco
Penna. Salt Mfg. Co., 1000 Widener Bldg., Phila.
Publicker Industries, 1429 Walnut St., Phila. 2
Rohm & Haas Co., Inc., 222 W. Washington Sq., Phila.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Rumford Div., Heyden Chem. Corp., Rumford 16, R. I.
Stauffer Chem. Co., 420 Lexington Ave., N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Victor Chemical Wks., 141 W. Jackson Blvd., Chicago
Welch, Holme & Clark Co., 439 West St., N. Y. (Muriatic)

ACTIVATED CARBONS (see Bleaching Earths, Decolorizing Carbons)

ADHESIVES

Arabol Mfg. Co., 110 E. 42nd St., N. Y.
Armour Glue Wks., 1355 W. 31st St., Chicago
Bakelite Corp., 30 E. 42nd St., N. Y.
Carbide & Carbon Chem. Corp., 30 E. 42nd St., N. Y.
Casein Co. of America, Bainbridge, N. Y.
Darling & Co., 4201 S. Ashland, Chicago
Dennison Mfg. Co., Framingham, Mass.

SHOULD YOUR PRODUCT BE PACKAGED IN AN AEROSOL DISPENSER?

Aerosol packaged products are booming. New items and new ideas in aerosols are finding ready acceptance throughout the world. Perhaps your product should be in an aerosol dispenser. G. BARR & COMPANY has the finest equipment and laboratory experience for filling and testing aerosols in any size from 1 ounce to 12 ounces and in every type of container. Capacity of more than one million units a month insures prompt delivery. If your product has a potential in an aerosol dispenser, write to

G. BARR & COMPANY

Manufacturing Chemists

1132 S. 37th Street

Chicago 9, III.



Whinned Cream sprays out to decorate Cakes and Desserts



Plastic coating sprays out to preserve woodwor



Motherophing Spray protects clothes quickly and easily.

SENSATION OF THE PACKAGING INDUSTRY

CROWN SPRA-TAINER



Lacquer sprayed on Silverware koops finish bright without polishing

The Original
and Leading
Light Weight
Propulsion Can
has NO-SIDE-SEAM

has no-side-seam no-top-seam

Everyone is talking about the new products that spray or come from cans under pressure—Whipped Cream, Plastic Sprays, Insecticides, Deodorants, Air-Conditioners. Perfumes, Colognes and others. But the big point is—most of the cans used are Crown Spra-tainers, for Spra-tainer was the First and is still the Number One light-weight propulsion can. Spra-tainer has no-side-seam—no-top-seam. This is made possible by Crown Can's exclusive patented method of producing seamless construction. Spra-tainer holds more pressure, has less leakage. If your product is liquid or sprays, find out what Spratainer can do for you. Ask to have a Crown Sales Representative call.

Several different Dispensing Valves are Available; but make sure the body is a Spra-tainer. Press the Top and It Sprays!



One of America's Largest Can Manufacturers

Plants at Philadelphia, Chicago, Orlando. Branch Offices: New York, Baltimore, Pittsburgh, St. Louis * Division of the Crown Cork & Seal Company

ADHESIVES (Contd.)

Diamond Alkali Co., Cleveland 14, Ohio
E. I. du Pont de Nemours & Co., Wilmington, Del.
General Chemical Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
Arnold Hoffman Co., Providence, R. I.
Koppers Co., Koppers Bldg., Pittsburgh, Pa.
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis
National Adhesives Corp., 270 Madison Ave., N. Y.
National Starch Products, Inc., 270 Madison Ave., N. Y.
Philadelphia Quartz, Co., Public Ledger Bldg., Phila. 6
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Sanford Mfg. Co., W. Congress & Peoria St., Chicago
Satisfaction Supply Co., 508 W. Broadway, N. Y.
A. E. Staley Mfg Co., Decatur, Ill.
Swift & Co., Chicago
Warwick Wax Co., 10-10 44th Ave., L. I. C., 1, N Y.
T. F. Washburn Co., 2244 Elston Ave., Chicago 14

AEROSOL DISPERSANTS

General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6 Kinetic Chemicals, Inc., Wilmington, Del.

AEROSOL FILLING (for the Trade)

G. Barr & Co., 1132 W. 37 St., Chicago 9 Bridgeport Brass Co., Bridgeport 2, Conn. Connecticut Chem. Research Corp., Bridgeport 2, Conn. Continental Filling Corp., 123 N. Hazel St., Danville, Ill. Industrial Management Corp., 458 S. Spring St., Los Angeles Regal Chem. Corp., 115 Dobbin St., Bklyn. 22

AEROSOL PRODUCTS (Containers and Filled Units for the Trade. Insecticides, Deodorants, Waxes, etc.)

G. H. Barr & Co., 1132 W. 37 St., Chicago 9
Bridgeport Brass Co., Bridgeport 2, Conn.
Connecticut Chem. Research Corp., Bridgeport 5, Conn.
Continental Can Co., 100 E. 42nd St., N. Y.
Davies-Young Soap Co., Dayton, Ohio
Edco Corp., Elkton Md.
Eston Chems. Inc., 3100 E. 26th St., Los Angeles
Industrial Management Corp., 458 S. Spring St., Los
Angeles 13. Cal. Angeles 13, Cal. Regal Chemical Corp., 115 Dobbin St., Bklyn. 22 Sparklet Devices, Inc., 272 Badger Ave., Newark 8, N. J. Virginia Smelting Co., W. Norfolk, Va. Woodlets, Inc., Portland, Pa.

AGITATORS (see Mixing Machinery)

AGRICULTURAL INSECTICIDES

Agicide Laboratories, 1717 Taylor Ave., Racine, Wis. Aluminum Co. of America, 641 Gulf Bldg., Pittsburgh American Agricultural Chem. Co., 50 Church St., N. Y. American-British Chem. Supplies, 180 Madison Ave., American Agricultural Chem. Co., 50 Church St., N. 1.
American-British Chem. Supplies, 180 Madison Ave.,
N. Y. 16
American Cyanamid & Chem. Corp., 30 Rockefeller
Plaza, N. Y.
An-Fo Mfg. Co., 3129 Elmwood Ave., Oakland, Calif.
California Spray Chemical Corp., Richmond, Calif.
Carbide & Carbon Chem. Corp., 30 E. 42nd St., N. Y.
Cenol Co., 4250 N. Pulaski Ave., Chicago
Chem. Mfg. & Dist. Co., Easton, Pa.
Chipman Chemical Co., Bound Brook, N. J.
Clarkson Co., 919 N. 9th St., Phila. 23
Commercial Solvents Corp., 17 E. 42 St., N. Y. 17
Derris, Inc., Metuchen, N. J.
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Eston Chems., Inc., 3100 E. 26th St., Los Angeles
Fairfield Labs., Inc., 417 Cleveland Ave., Plainfield N. J.
Filtrol Corp. 634 S. Spring St., Los Angeles
Geigy Co., 89 Barclay St., N. Y.
General Chem. Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
James Good, Inc., 2116 E. Susquehanna Ave., Phila.
Griffin Chem. Co., 1000 16th St., San Francisco
Heckathorn & Co., Richmond, Calif.
Hercules Powder Co., 929 King St., Wilmington, Del.
Arnold Hoffman & Co., 55 Canal St., Providence, R. I.

Hooker Electrochemical Co., Niagara Falls, N. Y. Julius Hyman & Co., Denver, Colo. Industrial Management Corp., 458 S. Spring St., Los Angeles
Kay-Fries Chemicals, 180 Madison Ave., N. Y. 16
Koppers Co., White Tar Div., Kearny, N. J.
Lorenz Chemical Co., 135 N. 32nd Ave., Omaha
Lanair Chem. Corp., 236 W. North Ave., Chicago 10
Mathieson Chem. Corp., 10 Light St., Baltimore 18
McLaughlin Gormley King Co., 1715—5th St., S. E.,
Minneapolis Minneapolis Michigan Chem. Corp., St. Louis, Mich. Miller Products Co., 1932 S. W. Water Ave., Portland, Ore.

Monsanto Chem. Co., St. Louis 4
S. B. Penick & Co., 50 Church St., N. Y.
Penna. Salt Mfg. Co., 1000 Widener Bldg., Phila.
Richards Sales Corp., Warren & Morris Sts., Jersey
City, N. J.
G. S. Robins & Co., 126 Chouteau Ave., St. Louis 2
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Shell Oil Co., 50 W. 50th St., N. Y. 20
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago
Standard Oil Co. (Calif.), 225 Bush St., San Francisco
Stauffer Chem. Co., 420 Lexington Ave., N. Y.
Thompson-Hayward Chem. Co., Kansas City, Mo.
Tobacco By-Products & Chem. Corp., Richmond, Va.
James Varley & Sons, 1200 Switzer Ave., St. Louis
Westvaco Chem. Div., Food Mach. & Chem. Corp., 405
Lexington Ave., N. Y. 17
Virginia-Carolina Chemical Corp., Richmond, Va.
Whitmire Research Corp., 339 S. Vandeventer, St. Louis
Woburn Chemical Corp., Harrison, N. J. Ore.

AGRICULTURAL INSECTICIDE SPREADERS

Alrose Chem. Co., Box 1294, Providence, R. I. Aluminum Ore. Co., Gulf Bldg., Pittsburgh American-British Chem. Supplies, 180 Madison Ave., N. Y. 16 American Colloid Co., Merchandise Mart Plaza, Chicago American Cyanamid & Chem. Corp., 30 Rockefeller Plaza, N. Y. American Cyanamid & Chem. Corp.,

30 Rockefeller Plaza, N. Y.

Antara Products, 444 Madison Ave., N. Y. 22

Attapulgus Clay Co., 210 W. Washington Sq., Phila.

Atlantic Refining Co., 260 South Broad St., Phila.

Atlas Powder Co., Wilmington 99, Del.

California Industrial Minerals Co., Friant, Calif.

Carbide & Carbon Chemicals Corp., 30 E. 42nd St., N. Y.

Colloidal Products Corp., 2598 Taylor St., San Francisco

Commercial Solvents Corp., 17 E. 42 St., N. Y. 17

Derris, Inc., Metuchen, N. J.

Dicalite Div., 612 S. Flower St., Los Angeles, Calif.

E. I. du Pont de Nemours & Co., Wilmington, Del.

Eastern Magnesia Talc Co., Burlington, Vt.

Emulsol Corp., 59 E. Madison St., Chicago

General Chem. Div., Allied Chem. & Dye Corp., 40

Rector St., N. Y. 6

Griffin Chem. Co., 1000 16th St., San Francisco

Heckathorn & Co., Richmond, Calif.

Kay-Fries Chemicals, Inc., 180 Madison Ave., N. Y.

Kearny Mfg. Co., Kearny, N. J.

Kessler Chem. Co., 7272 State Rd., Phila.

Miranol Chemical Co., 16 Melville Pl., Irvington, N. J.

Monsanto Chemical Co., 16 Melville Pl., Irvington, N. J.

Monsanto Chemical Co., Harrison, N. J.

Protean Chemical Corp., 150 Nassau St., N. Y. 1

Refined Prods. Corp., Lyndhurst, N. J.

Rohm & Haas Co., 222 W. Washington Sq., Phila.

F. E. Schundler & Co., 508 Railroad St., Joliet, Ill.

Solvay Sales Division, Allied Chemical & Dye Corp., 40

Rector St., N. Y. 6

R. T. Vanderbilt Co., 230 Park Ave., N. Y.

ALCOHOL (Ethyl and Denatured)

(see also Dealers)

Carbide & Carbon Chemicals Corp., 30 E. 42nd St., N. Y. Commercial Solvents Corp., 17 E. 42nd St., N. Y. 17 E. I. du Pont de Nemours & Co., Wilmington, Del. Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y. Monsanto Chem. Co., 1700 S. 2nd St., St. Louis Pennsylvania Sugar Co., 139 S. 3rd St., St. Louis Publicker Industries, Inc., 1429 Walnut St., Phila. 2

There's a Freon' propellent for every aerosol requirement

"Freon" propellents have gained favor among aerosol manufacturers everywhere. One important reason is their safety . . . "Freon" propellents are nontoxic, nonflammable, nonexplosive and harmless to foods, furs, flesh, fabrics and finishes. In addition, they are stable, meet all pressure requirements and have a broad range of solubility characteristics.

STANDARD PROPELLENTS

"FREON-12"

"FREON-12" and "FREON-11" solutions

For high-pressure aerosols such as insecticides, insect repellents, deodorants, metallic and pigmented paints. Pressure—70 lbs./sq. in. gauge at 70°F.

Most widely used propellent. Can be tailored to individual pressure requirements from 1 lb. to 69 lbs./sq. in. gauge at 70°F.

PROPELLENTS FOR SPECIAL APPLICATIONS

"FREON-12" and "FREON-114"

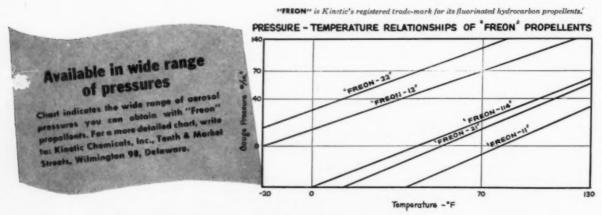
solutions

Where the active ingredients require extreme stability . . . cosmetics, for example. Provide variety of pressures from 12 to 69 lbs./sq. in. gauge at 70°F.

"FREON-22" in solution with other "FREON" propellents For applications requiring special solubility characteristics, as well as where pressure-increasing properties are needed.

"FREON-21"

Has unusual solubility characteristics, either when used alone or with other "Freon" propellents.





12

"FREON" SAFE PROPELLENTS

1950 BLUE BOOK

HIGH SALES POTENTIAL

in Continental's low pressure aerosol container!

Manufacturers of insecticides, larvicides, household deodorants and other liquid products have discovered a ready consumer market for products packed in Continental's low pressure aerosol containers. And manufacturers in many other fields are investigating its possibilities.

A number of good reasons account for the popularity of this package-dispenser. It is light in weight, easy to operate, convenient to use. It delivers an effective, efficient spray. The container is inexpensive enough to be thrown away after its contents have been exhausted - a retail pricing advantage.

Continental is not only the largest manufacturer of low pressure aerosol dispensers, but also the only manufacturer equipped both to supply container with valve, or the container alone. This "Finger-tip" valve - an exclusive Continental feature - produces a fine spray, the key to the success of this container.

If you are looking for new packaging methods or merchandising ideas, it will pay you to get in touch with Continental.



You can't beat Continental as a dependable source of supply!

CONTINENTAL CAN COMPANY



Continental Can Company Department A 100 East 42nd Street New York 17, New York

Gentlemen: I would like to have more informa-tion about your low pressure aerosol container.

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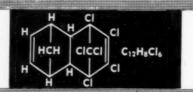
Julius Hyman & Company Announces insect toxicants



RESIDUAL IELDRIN (Compound 497)

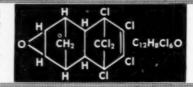
These compounds represent a significant advance in the progress of insect control, and are evidence of JULIUS HYMAN & COMPANY'S leadership in insecticide research.

ALDRIN (Compound 118) is a halogenated hydrocarbon with the following structure and empirical formula: The chemical name of Aldrin is: 1,2,3,4,10,10—hexachloro—1,4,4a,5,8,8a—hexahydro—1,4,5,8—dimethachloro—1,4,4a,5,8,8a—hexahydro—1,4,5,8—dimethanonaphthalene. Aldrin (re-crystallized) melts at 100°-102° C.



DIELDRIN (Compound 497) is a halogenated compound containing an atom of oxygen per molecule. It has the following structure and empirical formula:

The chemical name of Dieldrin is: 1,2,3,4,10,10—hexa-chloro—6,7—epoxy—1,4,4a,5,6,7,8,8a—octahydro— 1,4,5,3—dimethanonaphthalene. Dieldrin (re-crystal-lized) melts at 172°-175° C.



Effective at extremely low dosages Aldrin and Dieldrin promise more efficient and economical insect

Among the properties which make these compounds of revolutionary importance are the fact that under all normal conditions of use, they are completely stable in the presence of both alkalies and acids. Aldrin is, in general, more active insecticidally than the most potent halogenated hydrocarbon heretofore known, gamma benzene hexachloride. Aldrin volatilizes more rapidly than Chlordane under field conditions.

Aldrin, because of its speed of action and low dosage effectiveness with attendant economies. is outstanding for control of certain cotton insects and grasshoppers. It has also shown exceptional promise in the control of soil infesting pests. Its stability in both alkaline and acid soils is of great advantage to both formulator and grower.

DIELDRIN differs from ALDRIN in one important respect. It is extremely persistent and continues to destroy insects long after application. It is about 40 times more toxic to the housefly than DDT and approximately 100 times more toxic to roaches than DDT. Dieldrin appears to be suited to the control of flies, mosquitoes, cotton insects, forestry pests, termites, pests in soil, pests of lumber products, cloth eating pests, and industrial pests not actually infesting food products. Dieldrin is of the utmost value wherever longest residual effectiveness is advantageous.

Aldrin is available commercially this year for formulation of insecticides for cotton. Both Aldrin and Dieldrin are available for experimental purposes in dust and emulsifiable form for the 1950 season from Julius Hyman & Company. You are invited to communicate with our technical staff for more complete information about the chemical, physical, and insecticidal properties of these compounds.

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BAGS (Cloth)

Bemis Bro. Bag Co., 601 S. 4th St., St. Louis Central Bag & Burlap Co., 4513 S. Western Blvd., Chicago Chase Bag Co., 309 W. Jackson Blvd., Chicago Dayton Bag & Burlap Co., Dayton, Ohio Filter Paper Co., 2464 S. Michigan Ave., Chicago Fulton Bag & Cotton Mills, Atlanta, Ga. Hammond Bag & Paper Co., Wellsburg, W. Va. Mente & Co., New Orleans, La. Paper Service Co., Lockland, Cincinnati Virginia-Carolina Chem. Corp., Richmond, Va.

RAGS AND LINERS (Paper)

Arkell Safety Bag Co., 10 E. 40th St., N. Y. Arkell & Smiths, Canajoharie, N. Y. Bagpak Div., Int'l Paper Co., 220 E. 42nd St., N. Y. Bemis Bro. Bag Co., 601 S. 4th St., St. Louis Canister Co., Phillipsburg, N. J. Chase Bag Co., 309 W. Jackson Blvd., Chicago 6 Crepe-Kraft Co., 114 Adams St., Newark, N. J. Hammond Bag & Paper Co., Wellsburg, W. Va. Kraft Bag Corp., 630—5th Ave., N. Y. 20 Nashua Gummed & Coated Paper Co., Nashua, N. H. Paper Service Co., Box 107, Lockland, Cincinnati St. Regis Paper Co., 230 Park Ave., N. Y. Union Bag & Paper Co., 233 Broadway, N. Y. Virginia-Carolina Chem. Corp., 401 E. Main St., Richmond, Va.

BAGS (Multiwall)

Arkell & Smiths, Canajoharie, N. Y.
Bagpak Div., Int'l Paper Co., 220 E. 42nd St., N. Y.
Bemis Bro Bag Co., 601 S. 4th St., St. Louis
Chase Bag Co., 155 E. 44th St., N. Y.
Fulton Bag & Cotton Mills, Atlanta
Hammond Bag & Paper Co., Wellsburgh, W. Va.
Kraft Bag Corp., 630—5th Ave., N. Y. 20
Paper Service Co., P. O. Box 107, Lockland, Cincinnati
St. Regis Paper Co., 230 Park Ave., N. Y.
Union Bag & Paper Corp., 233 Broadway, N. Y.

BALSAMS

Aromatic Products, Inc., 15 E. 30th St., N. Y.
Berje Prods. Co., 616 W. 44th St., N. Y. 18
Centflor Mfg. Co., 243 W. 67th St., N. Y.
Antoine Chiris Co. Inc., 119 W. 57th St., N. Y.
Compagnie Parento, Inc., Croton-on-Hudson, N. Y.
Dodge & Olcott, Inc., 180 Varick St., N. Y.
P. R. Dreyer Inc., 117½ W. 19th St., N. Y.
A. C. Drury & Co., 219 E. North Water St., Chicago
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N. Y.
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		T-SK															5.15 Lb.
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CASIM	IR-A						*					 	 . ,			*					3.50
FORES?	TOL-A												 								2.50
FOUGE	RE-A												 								3.00 1

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FLEUROME #15 .						 										5.00 Lb.
HONEYSUCKLE #	15					 										2.50 Lb.
RED ROSE #15								,			. ,					2.00 Lb.

For PARA

FRUITOM	E-	P																		4.00 Lb.
LILAC-P .													 		*					1.75 Lb.
CRUSHED	N	AI	N	IT	P								 						*	3.50 Lb.
PINE-P																				2.25 Lb.
ROSE-P							*					*				*		*		2.15 Lb.

For POLISH & CLEANERS

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CITROJAVA #19	0.90 Lb.
FORESTOL #19	1.50 Lb.
YASMA #19	2.20 Lb.

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PERSIAN ROSE-SK	8.35 Lb.
SANTAL-SK	7.20 Lb.
TSUKO-SK	9.40 Lb.
AND	2 25 IL

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AIROME #17 .															3.00 Lb.
FORESTOL #17															2.55 Lb.
LAVENIA #17	 														3.50 Lb.
SWEET GRASS															3.30 Lb.

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BOUQUET #11					2.							 				3.00 Lb.
GERANIUM #1	1											 				2.85 Lb.
LAVENDER #11						. ,	. ,	. ,		*		 				3.20 Lb.



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ARIUM CARBOTTAL

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Croton Chem. Corp., 114 Liberty St., N. Y.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Fezandie & Sperrle, 205 Fulton St., N. Y.
Foote Mineral Co., 1609 Summer St., Philadelphia
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Innis, Speiden & Co., 117 Liberty St., N. Y.
Mallinckrodt Chem. Wks., St. Louis 7
Merck & Co., Rahway, N. J.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Westvaco Chem. Div., Food Machinery & Chem. Corp.,
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Witco Chemical Co., 295 Madison Ave., N. Y.
York Chem. Co., 23 Dean St., Brooklyn

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Champion Container Co., Water & Morris Sts., Phila.
Columbia Can Co., 315 Wyckoff Ave., Brooklyn
Container Co., Van Wert, O.
Continental Can Co., 100 E. 42 St., N. Y. 17
Diamond State Fibre Co., Bridgeport, Pa.
Master Package Corp., Owen, Wisc.
Rogers Fibre Co., 210 Lincoln St., Boston
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Chicago
Spaulding Fibre Co., Rochester N. H. Spaulding Fibre Co., Rochester, N. H.

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American Steel Package Co., Defiance, O.
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Continental Can Co., 100 E. 42 St., N. Y. 17
Draper Mfg. Co., Cleveland
Eastern Can Co., Keap St. & Kent Ave., Bklyn.
Fetter Steel Barrel Corp., Buffalo
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Manion Steel Barrel Co., Rouseville, Pa.
National Steel Barrel Co., Sharon, Pa.
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Republic Steel Package Co., 7930 Jones Rd., Cleveland
Rheem Mfg. Co., 570 Lexington Ave., N. Y.
St. Louis Steel Package Co., St. Louis
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Schmidt Soap Products, 236 W. North Ave., Chicago
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Silica Products Co., 700 Baltimore Ave., Kansas City, Mo.
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Florasynth Laboratories, 1513 Olmstead Ave., Bronx,
N. Y. Florasynth Laboratories, 1513 Olimsteau Ave., Bron. N. Y.
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Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y.
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F. Ritter & Co., 4641 Hollywood Blvd., Los Angeles 27
Schimmel & Co., 601 W. 26th St., N. Y.
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Ungerer & Co., 161 Sixth Ave., N. Y.
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Monsanto Chemical Co., 1700 S. 2nd St., St. Louis
Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Phila.
Pittsburgh Agr. Chem. Co., 350 Fifth Ave., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Stauffer Chemical Co, 420 Lexington Ave., N. Y.
Westvaco Chem. Div., Food Mach. & Chem. Corp., 405
Lexington Ave., N. Y.

BERGAMOT OIL (see Essential Oils)

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Lucidol Corp., 293 Larkin St., Buffalo Mallinckrodt Chem. Co., St. Louis 7

Mathieson Chemical Corp., 10 Light St., Balto. 18

Monsanto Chem. Co., St. Louis 4

Niagara Alkali Co., 60 E. 42nd St., N. Y.

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Stauffer Chem. Co., 420 Lexington Ave., N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Westvaco Chem. Div., Food Machinery & Chem. Corp., Chrysler Bldg., N. Y.
Wyandotte Chemicals Corp., Michigan Alkali Div., Wyandotte, Mich.

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Dicalite Co., 612 S. Flower St., Los Angeles, Calif. Filtrol Corp., 634 S. Spring St., Los Angeles, Calif. Filtrol Corp., 634 S. Spring St., Los Angeles J. M. Huber, Inc., 460 W. 34th St., N. Y.
Illinois Silica Co., Cairo, Ill.
Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Peerless Clay & Mineral Co., Pueblo, Colo.
L. A. Salomon & Bro., 216 Pearl St., N. Y.
Sinclair Refining Co., East Chicago, Ind.
Tamms Silica Co., 228 N. LaSalle St., Chicago
Chas. A. Wagner Co., 813 Callowhill St., Phila.
Westvaco Chem. Div., Food Machinery & Chem. Corp., 405 Lexington Ave., N. Y. 17
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.
Witco Chemical Co., 295 Madison Ave., N. Y.
Wyodak Chem. Co., 4600 E. 71st St., Cleveland

BLEACHING EQUIPMENT (for Oils), (see Deodorizing Equipment)

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American Cyanamid & Chemical Corp., 30 Rockefeller Plaza, N. Y. Diversey Corp., 53 W. Jackson Blvd., Chicago

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BLOWERS, ELECTRIC (see Sprayers, Electric)

BLUING (see Laundry Blue)

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E. I. du Pont de Nemours & Co., Wilmington, Del. General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland Innis, Speiden & Co., 117 Liberty St., N. Y.
Mallinckrodt Chem. Wks., St. Louis 7
Pacific Coast Borax Co., 51 Madison Ave., N. Y.
Pittsburgh Plate Glass Co., Columbia Chem. Div., Pittsburgh burgh
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Sergeant Chem. Co., 7 Dey St., N. Y.
Stauffer Chem. Co., 420 Lexington Ave., N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Welch, Holme & Clark Co., 439 West St., N. Y.
Witco Chemical Co., 295 Madison Ave., N. J.

BORIC ACID (see Above)

Armstrong Cork Co., Lancaster, Pa.
Anchor Hocking Glass Corp., Lancaster, Ohio
Capstan Glass Co., Connelsville, Pa.
Carr-Lowrey Glass Co., P. O. Box 356, Baltimore 3
Foster-Forbes Glass Co., Marion, Ind.
Graham Glass Co., Evansville, Ind.
Hagerty Bros. & Co., 10 Platt St., N. Y.
Hazel Atlas Glass Co., Wheeling, W. Va.
Kimble Glass Co., Vineland, N. J.
Maryland Glass Corp., Baltimore, Md.
Millville Bottling Wks., Millville, N. J.
Owens Illinois Glass Co., Toledo, O.
F. E. Reed Glass Co., 860 Maple St., Rochester, N. Y.
Root Glass Co., Terre Haute, Ind.
Ruth Glass Co., Conshohocken, Pa.
Tygart Valley Glass Co., Washington, Pa.
T. C. Wheaton Co., Millville, N. J.

BOTTLE FILLING MACHINERY (see Filling Machinery Bottles)

BOTTLE HANDLING EQUIPMENT (Unpacking, Cleaning, Drying, etc.)
Karl Kiefer Machine Co., 919 Martin St., Cincinnati
Perl Mach. Mfg. Co., 68 Jay St., Bklyn.
Pneumatic Scale Corp., N. Quincy, Mass.
Stokes & Smith Co., 4915 Summerdale Ave., Phila.
U. S. Bottlers Mchy. Co., 4019 N. Rockwell St., Chicago

BOTTLE WASHERS (see Washing Machinery, Bottle)

BOX LINERS (see Bag Liners)

BOXES (Corrugated and/or Fibre)

Brooklyn Fibre Syndicate, Decatur St. & Irving Ave., Brooklyn Cambridge Paper Box Co., 196 Broadway, Cambridge, Consolidated Paper Co., Monroe, Mich. Container Corp. of America, 111 W. Washington St., Container Corp. of America, 111 W. Wasnington St., Chicago
Robert Gair Co., 155 E. 44th St., N. Y.
Gardner Board & Carton Co., Middletown, O.
Hinde & Dauch Paper Co., 222 Decatur St., Sandusky, O.
F. J. Kress Box Co., 2390 Liberty Ave., Pittsburgh
Owens-Illinois Glass Co., Toledo, O.
River Raisin Paper Co., Monroe, Mich.
Universal Folding Box Co., Monroe & 13th Sts., Hoboken,

BOXES (Fancy Paper)

Alderman-Fairchild Co., 367 Orchard St., Rochester, N. Y. Baxter Paper Co., Brunswick, Me. F. N. Burt Co., Ltd., 540 Seneca St., Buffalo, N. Y. C. J. Fox Co., 236 Abron St., Providence, R. I. Foxon Paper Co., 230 West Park St., Providence, R. I. Robert Gair Co. 155 E. 44th St., N. Y. Gardner Board & Carton Co., Middletown, O. R. R. Heywood, Inc., 26th St. & 9th Ave., N. Y. R. J. Kittredge Co., 812 W. Superior St, Chicago Pictorial Package Co., Aurora, Ill. Piqua Paper Box Co., Piqua, O. Potomac Lithograph Mfg. Co., Washington, D. C. W. C. Ritchie & Co., 8800 S. Baltimore Ave., Chicago Robert Paper Box Co., Montville, Conn. Geo. Schmitt & Co., Grand & Florence Sts., Brooklyn Strobridge Lithographing Co., Norwood Station, Cincinnati U. S. Printing & Lithographing Co., Norwood, Cincinnati Universal Folding Box Co., Monroe & 13th St., Hoboken, Carl Voss Corp., Hoboken, N. J.

BOXES (Fancy Wooden)

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John H. Calo Co., 19 Rector St., N. Y. 6
John A. Chew, Inc., 60 E. 42nd St., N. Y.
Dickerson Co., Drexel Bldg., Phila.
Elgo Trading Corp., 220 Broadway, N. Y. 7
Griffin Chem. Co., 1000 16th St., San Francisco
Otto A. C. Hagen Co., Public Ledger Bldg., Phila.
Heckathorn & Co., Richmond, Calif.
Arnold Hoffman Co., Providence, R. I.
Chas. L. Huisking & Co., 155 Varick St., N. Y.
Lehigh Chemical & Export Co., 55 Liberty St., N. Y.
Leo Pasternak, Inc., 110 William St., N. Y.
G. S. Robins & Co., 126 Chouteau Ave., St. Louis 2
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
George Uhe, Inc., 80 Eighth Ave., N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y. 14
G. A. Wharry & Co., 95 Broad St., N. Y. 4 American-British Chemical Supplies, 180 Madison Ave.,

BROKERS (Oils and Fats)

American-British Chemical Supplies, 180 Madison Ave N. Y. 16
Irving R. Boody Co., 120 Wall St., N. Y.
John H. Calo Co., 19 Rector St., N. Y. 6
Davidson Commission Co., 327 S. La Salle St., Chicago John W. Hall, 327 S. La Salle St., Chicago Otto A. C. Hagen Co., Public Ledger Bldg., Phila.
Hentz & Co., 60 Beaver St., N. Y.
Arnold Hoffman Co., Providence, R. I.
Chas. Hollingshead Co., Produce Exchange, N. Y.
Horner Commission Co., 15 William St., N. Y.
E. G. James Co., 339 Produce Exchange, N. Y.
Marwood Co., 221 N. LaSalle, Chicago
Kullman & Co., 339 Produce Exchange, N. Y.
Marwood Co., 221 N. LaSalle, Chicago
Miller & Co., 2401 Chestnut St., Philadelphia
Rayner & Stonington, Inc., 79 Wall St., N. Y.
Rosenthal Bercow Co. 25 E. 26th St., N. Y.
Sterne & Son Co., Board of Trade Bldg., Chicago
Weaver & Hugi, Inc., Produce Exchange Bldg., N. Y.
Welch, Holme & Clark Co., Inc., 439 West St. N. Y.
Wilbur-Ellis Co., 17 Battery Pl., N. Y.
Wilson Brokerage, Inc., Produce Exchange, N. Y. American-British Chemical Supplies, 180 Madison Ave.,

BROOMS

Alabama Broom & Mattress Co., Huntsville, Ala. Amsterdam Broom Co., 81-95 Brookside Ave., Amsterdam, N. Y. Detroit Quality Brush Mfg. Co., 5937 Michigan Ave., Detroit Detroit

Eagle Woodenware Co., Hamilton, O.

Flour City Brush Co., 301 Fifth Ave., Minneapolis
Illinois Brush Mfg. Co., 3316 Ogden Ave., Chicago
Kendallville Brush & Broom Co., Kendallville, Ind.
Laitner Brush Co., 2000 Brooklyn Ave., Detroit
Tate Mfg. Co., 67 Sudbury St., Boston, Mass.

M. J. Toohey & Co., Fall River, Mass.

BRUSHES

American Standard Mfg. Co., 2509 S. Green St., Chicago Amsterdam Broom Co., 81-95 Brookside Ave., Amster-dam, N. Y. Detroit Quality Brush Mfg. Co., 5937 Michigan Ave., Detroit

Detroit

Empire Brush Wks., Port Chester, N. Y.

Jos. O. Flatt & Co., 141 Cedar St., Reading, Pa.

Flour City Brush Co., 301 Fifth Ave., So., Minneapolis

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Illinois Duster & Brush Co., 1944 Webster Ave., Chicago

W. E. Kautenberg Co., P. O. Box 255, Freeport, Ill.

Kendallville Brush & Broom Co., Kendallville, Ind.

Laitner Brush Co., 2000 Brooklyn Ave., Detroit

National Brush Co., Aurora, Ill.

Opie Brush Co., Kansas City, Mo.

Ox Fibre Brush Co., Frederick, Md.

Pacific Coast Brush Co., Los Angeles

Palmer Prods., Inc., Waukesha, Wisc.

Pioneer Mfg. Co., Cleveland, O.

Silver-Chamberlin Co., Clayton, N. J. Detroit

Sullivan Brush Co., Terre Haute, Ind. Tate Mfg. Co., 67 Sudbury St., Boston, Mass.

BULK SOAPS (see Chip Soap, Laundry Soap)

CAJUPUT OIL (see Essential Oils)

CALCIUM HYPOCHLORITE

Clarkson Co., 919 W. 9th St., Phila. 23
Cowles Chemical Co., 7016 Euclid Ave., Cleveland 3
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Innis, Speiden & Co., 117 Liberty St., N. Y.
John Wiley Jones Co., Caledonia, N. Y.
Mathieson Chemical Corp., 10 Light St., Balto. 18
Niagara Alkali Co., 60 E. 42nd St., N. Y.
Penn. Salt Mfg. Co., Widener Bldg., Phila.
Pittsburgh Plate Glass Co., Columbia Chemical Div.,
Pittsburgh Pittsburgh Pos. Turner & Co., Ridgefield, N. J. Rosenthal Bercow, 25 E. 26th St., N. Y. 10 Universal Chlorinator Co., 3418 W. Pico Blvd., Los Angeles Wyandotte Chemicals Corp., Wyandotte, Mich.

CALCIUM STEARATE (see Stearates)

CAMPHOR OIL (see Essential Oils)

CAN FILLING MACHINERY (see Filling Machinery, Cans)

CANDELILLA WAX (see Waxes)

CAN SPOUTS AND NOZZLES

Continental Can Co., 100 E. 42 St., N. Y. 17 Crown Cork Specialty Corp., Decatur, III.
Eastern Can Co., Keap St. & Kent Ave., Bklyn.
George D. Ellis & Son, 309 N. 3rd St., Philadelphia
Seal Spout Corp., 363 Jelliff Ave., Newark 8, N. J. (for cartons) Standard Containers, Inc., Montclair, N. J. Z & W Machine Prods., Inc., 5151 St. Clair Ave., Cleveland

CANS (Fibre or Paper)

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Cambridge Box Co., 196 Broadway, Cambridge, Mass.
Canister Co., Phillipsburg, N. J.
Cin-Made Corp. 294 Eggleston Ave., Cincinnati
Cleveland Container Co., 10630 Berea Rd., Cleveland
Columbia Can Co., 315 Wyckoff Ave., Brooklyn
Continental Can Co., 100 E. 42nd St., N. Y.
Cross Paper Products Co., 2595 Third Ave., N. Y.
Fonda Container Co., 41 Park Row, N. Y.
Master Package Corp., Owen, Wis.
Middlesex Paper Tube Co., 342 Madison Ave., N. Y.
Midwest Paper Container Co., 707 N. 3rd St., Minneapolis
Murro Chemical Co., P. O. Box 185, Asheville, N. C.
National Paper Can Co., Cudahy, Wis.
Packard Container Corp., West New York, N. J.
R. C. Can Co., 121 Chambers St., St. Louis
W. C. Ritchie & Co., 8800 S. Baltimore Ave., Chicago
Sealright Co., 500 Fifth Ave., N. Y.
Sutherland Paper Co., Kalamazoo, Mich.

CANS (Sifter Top)

American Can Co., 230 Park Ave., N. Y. Anchor Hocking Glass Corp., Lancaster, Ohio Cambridge Paper Box Co., 196 Broadway, Cambridge, Mass.
Canister Co., Phillipsburg, N. J.
Cans, Inc., 3217 W. 47th Pl., Chicago
Cleveland Container Co., 10630 Berea Rd., Cleveland
Cin-Made Corp., 294 Eggleston Ave., Cincinnati
Continental Can Co., Inc., 100 E. 42nd St., N. Y.
Crown Can Co., Erie Ave. & H St., Phila.
Eastern Can Co., Keap St. & Kent Ave., Bklyn.
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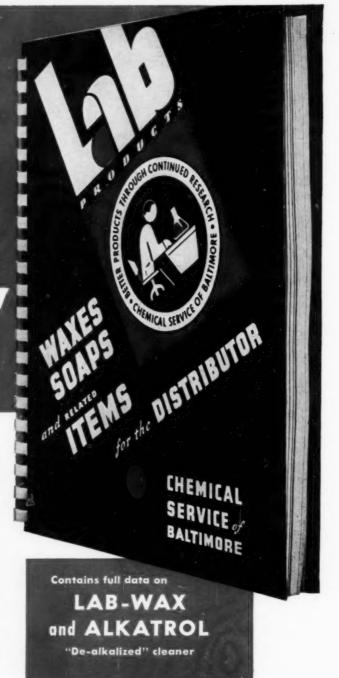
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York, N. J.
R. C. Can Co., 121 Chambers St., St. Louis
W. C. Ritchie & Co., 8800 S. Baltimore Ave., Chicago
Sefton Fibre Can Co., 3275 Big Bend Blvd., St. Louis
Standard Container, Inc., Bloomfield, N. J.
Sutherland Paper Co., Kalamazoo, Mich.

CANS (Steel) (see Pails, Steel)

CANS (Tin)

American Can Co., 230 Park Ave., N. Y.
Anchor Hocking Glass Corp., Lancaster, Ohio
Central Can Co., 2415 W. 9th St., Chicago
Cans, Inc., 3217 W. 47th Pl., Chicago
J. L. Clark Mfg. Co., Rockford, Ill.
Columbia Can Co., 315 Wyckoff Ave., Brooklyn
Continental Can Co., Inc., 100 E. 42nd St., N. Y.
Crown Can Co., Erie Ave. & H St., Philadelphia
Eastern Can Co., Wythe Ave. & Keap St., Brooklyn 11
George D. Ellis & Sons, 309 N. 3rd St., Philadelphia
Fein's Tin Can Co., Bush Terminal, Brooklyn
General Can Co., 1603 S. Canal St., Chicago
Heekin Can Co., 1603 S. Canal St., Chicago
Heekin Can Co., 110 E. 42nd St., N. Y.
W. F. Robertson Steel & Iron Co., Springfield, O.
St. Louis Can Co., 904 S. 14th St., St. Louis
Standard Container, Inc., Bloomfield, N. J.
Vulcan Tin Can Co., Bellwood, Ill.

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Alsop Engineering Corp., 100 High St., Milldale, Conn. Anchor Hocking Glass Corp., Lancaster, Ohio Consolidated Packaging Machinery Corp., 1400 West Ave., Buffalo Consolidated Prods. Co., 15 Park Row, N. Y. (Used) Crown Cork & Seal Co., Baltimore, Md. Filter Paper Co., 2464 S. Michigan Ave., Chicago First Machy. Corp., 157 Hudson St., N. Y. (Used) Hornney & Co., 420 Lexington Ave., N. Y. Karl Kiefer Machine Co., 919 Martin St., Cincinnati, Ohio M. R. M. Co., 191 Berry St., Brooklyn Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago Pneumatic Scale Corp., North Quincy, Mass. Scientific Filter Co., 2 Franklin Sq., N. Y. 10 Triangle Package Machy. Co., 6633 W. Diversey Blvd., Chicago 51 Tite-Cap Machine Co., 2 Franklin Sq., N. Y. 7 U. S. Bottlers Mchy. Co., 4015 N. Rockwell St., Chicago

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(see also Dealers)

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Diamond Alkali Corp., 300 Union Commerce Bldg.,
Cleveland 14
Dow Chemical Co., Midland, Mich.
E. I. Du Pont de Nemours & Co., Wilmington, Del.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Niagara Smelting Corp., Niagara Falls, N. Y.
Pennsylvania Salt Mfg. Co., 1000 Widener Bldg., Phila.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Virginia-Carolina Chem. Corp., Richmond, Va.
Welch, Holme & Clark Co., 439 West St., N. Y.
Westvaco Chem. Div., Food Mach. & Chem. Corp.,
405 Lexington Ave., N. Y.

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CARNAUBA WAX (see WAXES)

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CARTON LINING MACHINES (see Lining Machinery)

CARTON SEALING MACHINERY (see Sealing Machinery)

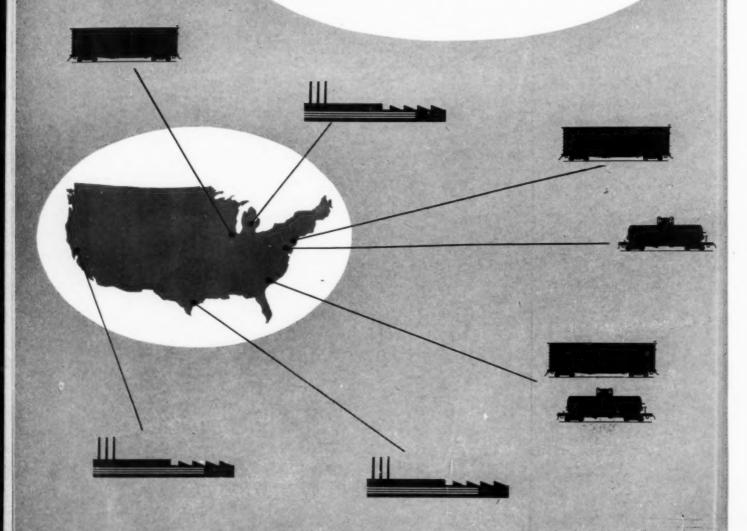
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J. L. Ferguson Co., Joliet, Ill.
First Machy. Corp., 157 Hudson St., N. Y. (Used)
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New England Card & Paper Co., Springfield, Mass.
Owens-Illinois Glass Co., Toledo, O.
Pictorial Package Co., Aurora, Ill.
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W. C. Ritchie & Co., 8800 S. Baltimore Ave., Chicago
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Borden Co., 350 Madison Ave., N. Y.
Wm. Diehl & Co., 336 W. 42nd St., N. Y. 18
E. I. du Pont de Nemours & Co., Wilmington, Del. Enco Chem. Corp., 441 Lexington Ave., N. Y.
Hercules Powder Co., 929 King St., Wilmington, Del. Innis, Speiden & Co., 117 Liberty St., N. Y.
Land-o-Lakes Creameries, Minneapolis
National Casein Co., 603 W. 80th St., Chicago
Sergeant Chem. Co., 7 Dey St., N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y.

CASES (Fibre) (see Boxes, Cans)

CASES (Corrugated) (see Boxes)

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Swift & Co., Chicago 9
Tech. Soap Mfg. Co., S. Chicago Ave., & 73 St.
Trio Chem. Wks., 341 Scholes St., Brooklyn
J. A. Tumbler Labs., 423 Hanover St., Baltimore
Science Industries, 609-15 Geyer Ave., St. Louis
Superior Soap Corp., 121 Nostrand Ave., Brooklyn
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Otto A. C. Hagen Co., 929 Public Ledger Bldg., Phila.
Spencer Kellogg & Sons, Buffalo, N. Y.
Pacific Vegetable Oil Corp., 62 Townsend St.,
San Francisco
J. H. Redding, Inc., 177 Battery Place, N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Arthur C. Trask Co., 4103 S. La Salle St., Chicago
Welch, Holme & Clark Co., 439 West St., N. Y.
G. A. Wharry & Co., 95 Broad St., N. Y. 4

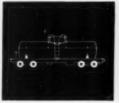
CAUSTIC POTASH (see Potash, Caustic)

CAUSTIC SODA

(see also Dealers)

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Belle Alkali Co., Belle, W. Va.
Brown Company, Portland, Me.
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Champion Fibre Co., Canton, N. C.
John A. Chew, Inc., 60 E. 42 St., N. Y. 17
Diamond Alkali Co., Cleveland 14
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Hooker Electrochemical Co., Niagara Falls, N. Y.
Julius Hyman & Co., Denver, Colo.
Industrial Chem. Sales Div., West Va. Pulp & Paper
Co., 230 Park Ave., N. Y.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Kimberley-Clark Paper Co., Neenah, Wis.
Mathieson Chemical Corp., 10 Light St., Balto. 18

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Michigan Electrochemical Co., Menominee, Mich. Monsanto Chemical Co., 1700 S. 2nd St., St. Louis 4 Niagara Alkali Co., 60 E. 42nd St., N. Y. Niagara Smelting Corp., Niagara Falls, N. Y. Oxford Paper Co., White Mountains, N. H. Pennsylvania Salt Mfg. Co., Widener Bldg., Phila. Pittsburgh Plate Glass Co., Columbia Chemical Div., 5th & Bellefield, Pittsburgh 13 Rosenthal Bercow Co., 25 E. 26th St., N. Y. Solvay Sales Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.
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CATALYSTS

Aluminum Co. of America, Gulf Bldg., Pittsburgh Attapulgus Clay Co., 210 W. Washington Sq., Phila. J. T. Baker Chem. Co., Phillipsburg, N. J. Filtrol Corp., 634 So. Spring St., Los Angeles Carbide & Carbon Chem. Corp., 30 E. 42nd St., N. Y. E. I. du Pont de Nemours & Co., Wilmington, Del. General Chem. Div., Allied Chem. & Dye Corp., 40 Rector General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. Harshaw Chem. Co., 1945 E. 97th St., Cleveland 6 Hooker Electrochemical Co., Niagara Falls, N. Y. Johns-Manville Corp., 22 E. 40th St., N. Y. Michigan Chemical Corp., St. Louis, Mich. Oronite Chem. Co., 38 Sansome St. San Francisco Rufert Chem. Co., 420 Lexington Ave., N. Y. Wurster & Sanger, Inc., 5201 S. Kenwood Ave.. Chicago

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(see also Sheep Dips)

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Baums Castorine Co., 200 Mathew St., Rome, N. Y. California Spray-Chemical Corp., Richmond, Calif. Carbide & Carbon Chemicals, 30 E. 42 St., N. Y. 17
Cary Mfg. Co., 4917 E. Michigan St., Indianapolis Chemical Compounding Corp., 262 Huron St., Brooklyn Chemical Mfg. & Dist. Co., Easton, Pa.
Chem. Service Co. of Balto, Howard & West Sts., Balto. Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago Chipman Chem. Co., Bound Brook, N. J.
Clifton Chemical Co., 62 William St., N. Y.
Corn King Co., Cedar Rapids, Ia.
Crystal Soap & Chem. Co., 6300 State Rd., Phila. 35
Davies-Young Soap Co., Dayton, O.
E. I. du Pont de Nemours & Co., Wilmington, Dela.
Eagle Soap Corp., Huntington, Ind.
Fuld Bros., 702 S. Wolfe St., Baltimore
Geigy Co., 89 Barclay St., N. Y.
General Chem. Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
James Good, Inc., 2116 E. Susquehanna Ave., Phila.
Goulard & Olena, Skillman, N. J.
Haag Laboratories, Inc., Blue Island, Ill.
Harrison Oil Co., 5110 N. 35th St., Milwaukee
Heckathorn & Co., Richmond, Calif.
Higley Chem. Co., Dubuque, Iowa
Hockwald Chem. Co., 135 Mississippi St., San Francisco
R. M. Hollingshead Corp., Camden, N. J.
James Huggins & Son, 239 Medford St., Malden, Mass.
Hysan Prods. Co., 135 Mississippi St., San Francisco
R. M. Hollingshead Corp., Camden, N. J.
James Huggins & Son, 239 Medford St., Malden, Mass.
Hysan Prods. Co., 1600 Fontain St., Phila. 21
Kemico Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
Ketoid Chem. Co., 339 S. Van Deventer, St. Louis
Koppers Co., White Tar Div., Kearny, N. J.
Lakeland Labs., 625 15th Ave., South, Minneapolis
Lorenz Chem. Co., 135 N. 32nd Ave., Omaha
McLaughlin, Gormley, King Co., Minneapolis, Minn.

Michigan Chem. Corp., St. Louis, Mich.
Nopco Chemical Co., Harrison, N. J.
North Coast Soap & Chem. Wks., Seattle, Wash.
Peck's Prod. Co., 610 E. Clarence Ave., St. Louis
Penna. Salt Mfg. Co., Widener Bldg., Phila.
Rex Research Corp., Toledo
Theo. B. Robertson Prods. Co., 700 W. Division St.,
Chiace Chicago Chicago
St. Lawrence Chem. Co., Ogdensburg, N. Y.
Schaeffer Mfg. Co., 102 Barton St., St. Louis
Shell Oil Co., 50 W. 50 St., N. Y. 20
Standard Oil Co. (Calif.), 225 Bush St., San Francisco
Standard Oil Co. (Ohio), Midland Bldg., Cleveland
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Texas Soap Mfg. Corp., 4905 Calhoun Road, Houston
Texol Chem. Wks., 75 Ward St., Worcester, Mass.
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Trio Chem. Wks., 341 Scholes St., Brooklyn 6
Uncle Sam Chem. Co., 575 W. 131st St., N. Y.
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Universal Chem. Corp., Akron, O.
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CEDAR LEAF OIL (see Essential Oils)

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Wyandotte Chemicals Corp., Wyandotte, Mich.

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Michigan Chemical Corp., St. Louis, Mich.
S. B. Penick & Co., 50 Church St., New York
Pittsburgh Agr. Chem. Co., 350 Fifth Ave., New York
John Powell & Co., 1 Park Ave., New York
R. J. Prentiss & Co., 110 William St., New York
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
Stauffer Chemical Co., 3200 E. 26th St., Los Angeles, 23
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Solvay Sales Div., Allied Chem. & Dye Corp., 40 Rector
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Westvaco Chem. Div., Food Mach. & Chem. Corp., 405
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R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland Interstate Color Co., 5 Beekman St., N. Y.
Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y.
Merck & Co., Rahway, N. Y.
S. B. Penick & Co., 50 Church St., N. Y.
R. J. Prentiss & Co., 110 William St., N. Y.
Pylam Products Co., 799 Greenwich St., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
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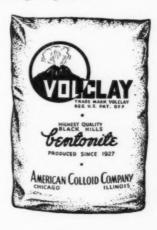
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Banner Chem. Prods. Co., 60 Elm St. Newark 5
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Blockson Chemical Co., Joliet, Ill.
Bonewitz Chemicals, Inc., Burlington, Ia.
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Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Clarkson Co., 919 N. 9th St., Phila. 23
Clifton Chem. Co., 62 William St., N. Y.
Cole Labs., 22-19—37th Ave., Long Island City
Columbia Soap & Chem. Co., Inc., 217-221 Clara St., San
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Crystal Labs., Inc., 21 W. Park Way, N. E., Pittsburgh
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E. I. du Pont de Nemours & Co., Wilmington, Dela.
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Plaza, N. Y.
Calco Chemical Div., Bound Brook, N. J.
Chas. B. Chrystal Co., 53 Park Pl., N. Y. 7
Stanley Doggett, Inc., 75 Varick St., N. Y.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Dyestuffs & Chemicals, Inc., 11th & Monroe Sts., St.
Louis
Fezandie & Sperrle, 205 Fulton St., N. Y.
Fritzsche Bros., 76—9th Ave., N. Y. 11
Geigy Co., 89 Barclay St., N. Y.
General Dyestuff Corp., 435 Hudson St., N. Y.
Hilton-Davis Chemical Co., Cincinnati 12
Interstate Color Co., 5 Beekman St., N. Y.
H. Kohnstamm & Co., 91 Park Pl., N. Y.
Leeben Chem. Co., 389 Washington St., N. Y.
Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y. 13
National Aniline Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
F. Ritter & Co., 4641 Hollywood Blvd., Los Angeles 27
Tamms Silica Co., 228 N. La Salle St., Chicago
Pylam Products Co., 799 Greenwich St., N. Y.
Sandoz Chem. Wks., 61 Van Dam St., N. Y.
Sandoz Chem. Wks., 61 Van Dam St., N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y.

COMPRESSORS (Air)

Beach-Russ Co., 50 Church St., N. Y.
Binks Mfg. Co., 3114 Carroll Ave., Chicago
Chemical & Process Machy. Corp., 146 Grand St.,
N. Y. 13 (Used)
Consolidated Prods., Co., 15 Park Row, N. Y. (Used)
Crowell Mfg. Co., 177 Clifton Pl., Brooklyn
De Vilbiss Co., Toledo, O.
Electric Sprayit Co., 1415 Illinois Ave., Sheboygan, Wis.
Fairbanks-Morse & Co., 80 Broad St., N. Y.
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Foster Pump Works, 51 Washington St., Brooklyn
Fumeral Co., Racine, Wisc.
Ingersoll-Rand Co., 11 Broadway, N. Y.
Nash Engineering Co., South Norwalk, N. Y.
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago (Used)
Worthington Pump & Machinery Corp., 2 Park Ave.,
N. Y.

CONSULTANTS (Chemists, Engineers, Testing Laboratories, Etc.)

Applied Research Laboratories, Dayton, N. J. Benson Process Eng. Co., Eden, N. Y.

Columbus Labs., 33 N. State St., Chicago Alvin J. Cox, 1118 Emerson St., Palo Alto, Calif. Curtis & Tompkins, Ltd., 236 Front St., San Francisco, Calif.

Dairy Laboratories, 2300 Locust St., Phila.
E. R. de Ong., 503 Market St., San Francisco Elite Laboratories, 153 Center St., N. Y.

Wm. Garrigue & Co., 9 S. Clinton St., Chicago Hochstadter Laboratories, Inc., 23 W. 47th St., N. Y.

Illinois Chemical Labs., Gridley, Ill.
James Laboratories, 189 W. Madison St., Chicago La Wall & Harrison, 214 S. 12th St., Phila.
Lederer Bacteriological Labs., 269 S. 19th St., Phila.
Alan Porter Lee, Inc., 150 Broadway, N. Y.

Harold A. Levey Laboratories, Oleander & Dublin Sts., New Orleans
J. W. McCutcheon, 475 Fifth Ave., N. Y.
C. C. McDonnell, 122 Hesketh St., Chevy Chase, Md. Molnar Laboratories, 211 E. 19th St., N. Y.
Pease Laboratories, 39 W. 38th St., N. Y.
Rosoff Laboratories, 60th & Osage, Phila.
Samuel P. Sadtler & Son, 210 S. 13th St., Phila.
J. Casper Schwarz, No. 4 Wakefield, Ladue, St. Louis County, 17, Missouri.
Seil, Putt & Rusby, 16 E. 34th St., N. Y.
Skinner & Sherman, 246 Stuart St., Boston
Foster D. Snell, 29 W. 15th St., N. Y.
Stillwell & Gladding, 130 Cedar St., N. Y.
E. G. Thomssen, 306 Center St., Winona, Minn.
United States Testing Co., 1415 Park Ave., Hoboken, N. J.
Wurster & Sanger, 5201 Kenwood Ave., Chicago

CONTAINERS, SHIPPING (see Boxes)

CONVEYORS

Alsop Engineering Corp., 100 High St., Milldale, Conn. Bailey-Buruss Co., Atlanta, Ga.
H. W. Caldwell & Son Co., 2410 W. 18th St., Chicago Chisholm-Ryder Co. of Pa., Hanover, Pa.
Consolidated Prods. Co., 15 Park Row, N. Y. (Used) J. H. Day Co., 1144 Harrison Ave., Cincinnati Dow Co., 1025 Franklin St., Louisville, Ky.
Filter Paper Cc., 2464 S. Michigan Ave., Chicago First Machy. Corp., 157 Hudson St., N. Y. (Used) Wm. Garrigue & Co., 9 S. Clinton St., Chicago B. F. Gump Co., 1325 S. Cicero Ave., Chicago Horix Mfg. Co., Pittsburgh
Houchin Machinery Co., Hawthorne, N. J.
Jeffrey Mfg. Co., 924 N. 4th St., Columbus, O. Karl Kiefer Machine Co., 919 Martin St., Cincinnati Lancaster Iron Works, Lancaster, Pa.
Link-Belt Co., 910 S. Michigan, Chicago
M. R. M. Co., 191 Berry St., Bklyn.
Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago
Pneumatic Scale Corp., North Quincy, Mass.
Read Machy. Co., York, Pa.
George G. Rodgers Co., 225 W. 34th St., N. Y.
Sprout Waldron & Co., Muncy, Pa.
Standard Conveyor Co., N. St. Paul, Minn.
Stephens-Adamson Mfg. Co., Aurora, Ill.
F. J. Stokes Machine Co., Tabor Rd., Phila., Pa.
Triangle Package Machy. Co., 906 N. Spaulding Ave., Chicago
U. S. Bottlers Mchy. Co., 4019 N. Rockwell St., Chicago
Weigh Right Automatic Scale Co., 404 Grant Ave.,
Joliet, Ill.

COPPER NAPHTHENATE

John H. Calo Co., 19 Rector St., N. Y. 6
Cuprinol, Inc., 7 Water St., Boston
General Petroleum Corp. of Calif., 108 W. 2nd St.,
Los Angeles
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Heckathorn & Co., 641 S. 4th St., Richmond, Calif.
Nuodex Prods. Co., 312 Division St., Elizabeth, N. J.
Oronite Chemical Co., 38 Sansome St., San Francisco
Arthur C. Trask Co., 4103 La Salle St., Chicago 9
G. A. Wharry & Co., 95 Broad St., N. Y. 4

COPPER SULFATE (Blue Vitriol)

American Cyanamid & Chem. Corp., 30 Rockefeller Plaza, N. Y.
W. R. E. Andrews Sales Co., 1505 Race St., Philadelphia 2, Pa.
J. T. Baker Chem. Co., Phillipsburg, N. J.
Brooklyne Chem. Wks., Baltimore 25, Md.
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Faesy & Besthoff, Inc., 325 Spring St., N. Y.
General Chemical Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Heckathorn & Co., 641 S. 4th St., Richmond, Calif.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Mallinckrodt Chemical Wks., 2nd & Mallinckrodt Sts.,
St. Louis 7
Merck & Co., Rahway, N. J. St. Louis 7
Merck & Co., Rahway, N. J.
Phelps Dodge Refining Corp., 40 Wall St., N. Y. 5
Raritan Copper Wks., Perth Amboy, N. J.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Tennessee Copper Co., 61 Broadway, N. Y.
Tennessee Corp., Atlanta, Ga.

CORKING MACHINERY

Edward Ermold Co., 652 Hudson St., N. Y. Horix Mfg. Co., Pittsburgh Karl Kiefer Machine Co., 919 Martin St., Cincinnati Newman, Tallow & Soap Mchy. Co., 1051 W. 35th St., Chicago Pneumatic Scale Corp., North Quincy, Mass. U. S. Bottlers Mchy. Co., 4019 N. Rockwell St., Chicago

CORKS

Armstrong Cork Co., Lancaster, Pa. Cork Import Corp., 330 W. 42nd St., N. Y. Dodge Cork Co., Lancaster, Pa.

CORN OIL

(see also Brokers and Dealers)

American Maize Prods. Co., 110 E. 42nd St., N. Y. Archer-Daniels-Midland Co., Minneapolis 2 Balfour, Guthrie & Co., Ltd., 67 Wall St., N. Y. John H. Calo Co., 19 Rector St., N. Y. 6 Commercial Solvents Corp., 17 E. 42 St., N. Y. 17 T. G. Cooper & Co., Cedar & Venango Sts., Phila. Corn Products Refining Co., 17 Battery Pl., N. Y. Durkee Famous Foods, Inc., 2670 Elston Ave., Chicago Early & Daniel Co., Ingalls Bldg., Cincinnati Otto A. C. Hagen Corp., 929 Public Ledger Bldg., Phila. Spencer Kellogg & Sons, Buffalo, N. Y. Leghorn Trading Co., 21 West St., N. Y. National Starch Products, 270 Madison Ave., N. Y. Welch, Holme & Clark Co., 439 West St., N. Y. Woolner & Co., Peoria, Ill.

COSMETICS (Private Brand Compacts, Lipsticks, etc.)

Allied Avon Products, Inc., Suffern, N. Y.
Amer. Perfumers Labs., 30 Rockefeller Plaza, N. Y.
Analab Labs., 285 Franklin St., Boston 10
G. Barr & Co., 1132 W. 37 St., Chicago 9
Corn King Co., Cedar Rapids, Ia.
Cadet Laboratories, 10 Clarence St., Worcester 5, Mass.
Richard Gesell, Inc., 200 W. Houston St., N. Y.
Onyx Oil & Chemical Co., Warren & Morris Sts.,
Jersey City 2
Schmidt Soap Products 236 W. North Ave., Chicago
Science Industries, 609-15 Geyer Ave., St. Louis
Julius Schmid, Inc., 423 W. 55th St., N. Y.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

COTTONSEED FATTY ACIDS (and Soapstock)

(see also Brokers and Dealers)

Archer-Daniels-Midland Co., Minneapolis 2 Armour Chem. Div., Armour & Co., 1355 W. 31st St., Chicago
John H. Calo Co., 19 Rector St., N. Y. 6
Concord Chemical Co., Moorestown, N. J.

T. G. Cooper & Co., Cedar & Venango Sts., Phila.
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Durkee Famous Foods, Inc., 2670 Elston Ave., Chicago
Eastern Industries, Inc., Ridgefield, N. J.
Emery Industries, Inc., 4300 Carew Tower, Cincinnati
General Mills, Chemical Div., 400 2nd Ave., Minneapolis 1
Griffin Chem. Co., 1000 16th St., San Francisco
A. Gross & Co., 295 Madison Ave., N. Y.
Otto A. C. Hagen Corp., 929 Public Ledger Bldg., Phila.
W. C. Hardesty Co., 41 E. 42nd St., N. Y
Spencer-Kellogg & Sons, Buffalo, N. Y.
Portsmouth Cotton Oil Refining Co., Portsmouth, Va.
Procter & Gamble Co., Cincinnati, O.
J. H. Redding, Inc., 17 Battery Place, N. Y.
Werner G. Smith Co., 2191 W. 110th St., Cleveland
Southern Cotton Oil Co., Produce Exchange, N. Y.
Swift & Co., Chicago 9
Welch Holme & Clark Co., 439 West St., N. Y. Welch Holme & Clark Co., 439 West St., N. Y. Wilson-Martin Co., Swanson St., Phila. Woburn Chemical Corp., Harrison, N. J.

COTTONSEED OIL

(see also Brokers and Dealers)

John H. Calo Co., 19 Rector St., N. Y. 6
Durkee Famous Foods, Inc., 2670 Elston Ave., Chicago
Eastern Industries, Inc., Ridgefield, N. J.
Otto A. C. Hagen Corp., 929 Public Ledger Bldg., Phila.
Spencer Kellogg & Sons, Buffalo, N. Y.
Pacific Vegetable Oil Corp., 62 Townsend St.,
San Francisco 7 San Francisco 7
Portsmouth Cotton Oil Refining Corp., Portsmouth, Va. Proctor & Gamble Co., Cincinnati, O. J. H. Redding Co., 17 Battery Pl., N. Y. Rosenthal Bercow Co., 25 E. 26th St., N. Y. Sergeant Chem. Co., 7 Dey St., N. Y. C. F. Simonin's Sons, Phila.
Southern Cotton Oil Co., Produce Exchange, N. Y. Welch Holme & Clark Co., 439 West St., N. Y.

COUMARIN

(see also Aromatic Chemicals)

Aromatic Products, Inc., 15 E. 30th St., N. Y. Dodge & Olcott, Inc., 180 Varick St., N. Y. Dow Chemical Co., Midland, Mich. E. I. du Pont de Nemours & Co., Wilmington, Del. Fritzsche Bros., 76 Ninth Ave., N. Y. 11 General Drug Co., 170 Varick St., N. Y. Givaudan-Delawanna, 330 W. 42nd St., N. Y. Lautier Fils, 321 5th Ave., N. Y. 16 Maywood Chemical Wks., Maywood, N. J. Monsanto Chemical Wks., Maywood, N. J. Monsanto Chemical Co., 1700 S. 2nd St., St. Louis Naugatuck Aromatics, 254 Fourth Ave., N. Y. Schimmel & Co., 601 W. 26th St., N. Y. Verona Chem. Co., 26 Verona Ave., Newark, N. J.

CREOSOTE OIL (see Coal Tar Raw Materials)

CRESOL COMPOUND, U.S.P. and Technical (see Disinfectants, Coal Tar)

CRESOLS (see Coal Tar Raw Materials)

CRESYLIC ACID

American-British Chem. Supplies, 180 Madison Ave., N. Y. 16 Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.
California Commercial Co., 30 Rockefeller Plaza, N. Y.
John H. Calo Co., 19 Rector St., N. Y. 6
Concord Chemical Co., Moorestown, N. J.
T. G. Cooper & Co., Cedar & Venango Sts., Phila. 34
Kay-Fries Chems., 180 Madison Ave., N. Y. 17
Koppers Co., Pittsburgh
Oronite Chem. Co., 38 Sansome St., San Francisco 4
Reilly Tar & Chem. Corp., Indianapolis
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17
Shell Chemical Co., 4 W. 58th St., N. Y. 19
Standard Oil Co. of Calif., San Francisco

CRUTCHERS

Allied Steel & Equipment Co., Chester, N. J.
Atlas Steel Construction Co., Irvington, N. J.
Chemical & Process Machy. Corp., 146 Grand St.,
N. Y. 13 (Used)
Consolidated Prods. Co., 15 Park Row, N. Y. (Used)
Edge Moor Iron Wks., Edge Moor, Del.
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Houchin Machinery Co., Hawthorne, N. J.
Huber Machine Co., 259—46th St., Brooklyn
Industrial Process Engineers, 8 Lister Ave., Newark 5
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago
H. K. Porter Co., Oliver Bldg., Pittsburgh
Henry Simon Ltd., Cheadle Heath, England
Struthers-Wells Co., Warren, Pa.

CUBE

Chipman Chem. Co., Bound Brook, N. J.
Derris, Inc., 79 Wall St., N. Y.
Enco Chem. Corp., 441 Lexington Ave., N. Y.
Greene Trading Co., 70 Pine St., N. Y.
Hammond Paint & Chem. Co., Beacon, N. Y.
Heekathorn & Co., Richmond, Calif.
Ketoid Chem. Co., 549 W. Washington, Chicago
Lenape Trading Co., 233 Broadway, N. Y.
Orbis Products Corp., 215 Pearl St., N. Y.
S. B. Penick & Co., 50 Church St., N. Y.
John Powell & Co., 1 Park Ave., N. Y.
R. J. Prentiss & Co., 110 William St., N. Y.
Frank B. Ross Co., 507—8th St., Hoboken, N. J.
Stauffer Chemical Co., 420 Lexington Ave., N. Y.
U. S. Industrial Chemicals, Inc., 60 E. 42nd St., N. Y. C.
Whitmire Research Corp., 839 S. Vandeventer, St. Louis.

CUTTING TABLES (see Soap Machinery)

CYANIDES (see Fumigants) (see Sodium Cyanide)

DDT (Dichloro-diphenyl-trichloroethane)

E. I. du Pont de Nemours & Cô., Wilmington, Del. Geigy Co., Inc., 89 Barclay St., N. Y.
General Chemical Div., Allied Chem. & Dye Corp.
40 Rector St., N. Y.
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.
Kolker Chem. Works, 80 Lister Ave., Newark, N. J.
Michigan Chem. Corp., St. Louis, Mich.
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis, Mo.
Montrose Chem. Co., 120 Lister Ave., Newark, N. J.
Pennsylvania Salt Mfg. Co., Widener Bldg., Phila.
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Stauffer Chemical Co., 420 Lexington Ave., N. Y.
Westvaco Chem. Div., Food Machy. & Chem. Corp.,
405 Lexington Ave., N. Y.

DDT FORMULATIONS (Liquids and Powders)

Analab Labs., 285 Franklin St., Boston 10
Boston Chem. Industries, 64 E. Brookline St., Boston 18
Brilco Laboratories, 1553 63rd St., Brooklyn 19
Central Chemical Co., 5137 S. West Ave., St. Louis
Chemical Mfg. & Dist. Co., Easton, Pa.
Connecticut Chem. Research Corp., Bridgeport, Conn.
Derris, Inc., 79 Wall St., N. Y.
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington
Eagle Soap Corp., Huntington, Ind.
Elkay Prods. Co., 323 W. 16 St., N. Y. 11
Eston Chemicals, Inc., 3100 E. 26th St., Los Angeles
Fuld Bros., 702 S. Wolfe St., Baltimore
Geigy Co., Inc., 89 Barclay St., N. Y.
Griffin Chem. Co., 1000 16th St., San Francisco
Heckathorn & Co., Richmond, Calif.
Hercules Powder Co., 929 King St., Wilmington, Del.
Hockwald Chem. Co., 135 Mississippi St., San Francisco
Hysan Products Co., 1600 Fontain St., Phila.
Industrial Management Corp., 458 S. Spring St., Los
Angeles, Calif.
McLaughlin, Gormley, King Co., Minneapolis
Michigan Chemical Corp., 215 Pearl St., N. Y.

McCORMICK INSECTICIDES

Bee Brand Insect Spray: Contains 5% DDT, 2% Chlordane and Pyrethrum.

Bee Brand Insect Powder: Pure, finely ground pyrethrum powder for household use.

Bee Brand Insecticidal Shampoo: Kills fleas and lice on dogs and cats—head lice and crab lice on humans. Contains pyrethrum, rotenone and cocoanut oil soap.

Bee Brand Flea Killer: Contains 1% rotenone, cube resins in a clay base for the control of fleas and lice on dogs and cats.

Bee Brand Flea and Tick Killer: Contains 10% DDT; controls fleas and ticks on dogs, head lice and crab lice on humans.

Bee Brand Canary Lice Powder: A specially compounded pyrethrum powder in puffer tins.

Bee Brand Roach Killer: Highly effective for household and institutional use. To be used only as directed on package.

Bee Brand Disinfectant: A highly efficient disinfectant, deodorant and fungicide. Phenol coefficient —8 F.D.A. method.

Red Arrow Garden Spray: A highly concentrated garden spray containing pyrethrum, rotenone and piperonyl cyclonene.

Red Arrow Dust: A highly effective dust containing % % rotenone.

Hy-Gro (13-26-13): Soluble plant food and starter solution.

Bee Brand Ant Killer: 5% Rotenone Derris Powder.

Bee Brand Insect Repellent: Drives away mosquitoes, biting flies, gnats, fleas and chiggers. This material is 2-Ethylhexanediol-1, 3.

McCORMICK & CO., INC.

BALTIMORE 2, MARYLAND

COPPER SULFATE (Blue Vitriol)

American Cyanamid & Chem. Corp., 30 Rockefeller Plaza, N. Y. W. R. E. Andrews Sales Co., 1505 Race St., Piaza, N. 1.

W. R. E. Andrews Sales Co., 1505 Race St.,
Philadelphia 2, Pa.

J. T. Baker Chem. Co., Phillipsburg, N. J.
Brooklyne Chem. Wks., Baltimore 25, Md.
Dow Chemical Co., Midland, Mich.

E. I. du Pont de Nemours & Co., Wilmington, Del.
Faesy & Besthoff, Inc., 325 Spring St., N. Y.
General Chemical Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Heckathorn & Co., 641 S. 4th St., Richmond, Calif.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Mallinckrodt Chemical Wks., 2nd & Mallinckrodt Sts.,
St. Louis 7
Merck & Co., Rahway, N. J.
Phelps Dodge Refining Corp., 40 Wall St., N. Y. 5
Raritan Copper Wks., Perth Amboy, N. J.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Tennessee Copper Co., 61 Broadway, N. Y.
Tennessee Corp., Atlanta, Ga.

CORKING MACHINERY

Edward Ermold Co., 652 Hudson St., N. Y. Horix Mfg. Co., Pittsburgh Karl Kiefer Machine Co., 919 Martin St., Cincinnati Newman, Tallow & Soap Mchy. Co., 1051 W. 35th St., Chicago Chicago Pneumatic Scale Corp., North Quincy, Mass. U. S. Bottlers Mchy. Co., 4019 N. Rockwell St., Chicago

Armstrong Cork Co., Lancaster, Pa. Cork Import Corp., 330 W. 42nd St., N. Y. Dodge Cork Co., Lancaster, Pa.

CORN OIL

(see also Brokers and Dealers)

American Maize Prods. Co., 110 E. 42nd St., N. Y. Archer-Daniels-Midland Co., Minneapolis 2
Balfour, Guthrie & Co., Ltd., 67 Wall St., N. Y. John H. Calo Co., 19 Rector St., N. Y. 6
Commercial Solvents Corp., 17 E. 42 St., N. Y. 17
T. G. Cooper & Co., Cedar & Venango Sts., Phila. Corn Products Refining Co., 17 Battery Pl., N. Y. Durkee Famous Foods, Inc., 2670 Elston Ave., Chicago Early & Daniel Co., Ingalls Bldg., Cincinnati Otto A. C. Hagen Corp., 929 Public Ledger Bldg., Phila. Spencer Kellogg & Sons, Buffalo, N. Y. Leghorn Trading Co., 21 West St., N. Y. National Starch Products, 270 Madison Ave., N. Y. Welch, Holme & Clark Co., 439 West St., N. Y. Woolner & Co., Peoria, Ill.

COSMETICS (Private Brand Compacts, Lipsticks, etc.)

Allied Avon Products, Inc., Suffern, N. Y.
Amer. Perfumers Labs., 30 Rockefeller Plaza, N. Y.
Analab Labs., 285 Franklin St., Boston 10
G. Barr & Co., 1132 W. 37 St., Chicago 9
Corn King Co., Cedar Rapids, Ia.
Cadet Laboratories, 10 Clarence St., Worcester 5, Mass.
Richard Gesell, Inc., 200 W. Houston St., N. Y.
Onyx Oil & Chemical Co., Warren & Morris Sts.,
Jersey City 2 Jersey City 2
Schmidt Soap Products 236 W. North Ave., Chicago Science Industries, 609-15 Geyer Ave., St. Louis Julius Schmid, Inc., 423 W. 55th St., N. Y. Allen B. Wrisley Co., 6801 W. 65th St., Chicago

COTTONSEED FATTY ACIDS (and Soapstock)

(see also Brokers and Dealers)

Archer-Daniels-Midland Co., Minneapolis 2 Armour Chem. Div., Armour & Co., 1355 W. 31st St., Chicago John H. Calo Co., 19 Rector St., N. Y. 6 Concord Chemical Co., Moorestown, N. J.

T. G. Cooper & Co., Cedar & Venango Sts., Phila.
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Durkee Famous Foods, Inc., 2670 Elston Ave., Chicago
Eastern Industries, Inc., Ridgefield, N. J.
Emery Industries, Inc., 4300 Carew Tower, Cincinnati
General Mills, Chemical Div., 400 2nd Ave., Minneapolis 1
Griffin Chem. Co., 1000 16th St., San Francisco
A. Gross & Co., 295 Madison Ave., N. Y.
Otto A. C. Hagen Corp., 929 Public Ledger Bldg., Phila.
W. C. Hardesty Co., 41 E. 42nd St., N. Y
Spencer-Kellogg & Sons, Buffalo, N. Y.
Portsmouth Cotton Oil Refining Co., Portsmouth, Va.
Procter & Gamble Co., Cincinnati, O.
J. H. Redding, Inc., 17 Battery Place, N. Y.
Werner G. Smith Co., 2191 W. 110th St., Cleveland
Southern Cotton Oil Co., Produce Exchange, N. Y.
Swift & Co., Chicago 9
Welch Holme & Clark Co., 439 West St., N. Y.
Wilson-Martin Co., Swanson St., Phila.
Woburn Chemical Corp., Harrison, N. J.

COTTONSEED OIL

(see also Brokers and Dealers)

John H. Calo Co., 19 Rector St., N. Y. 6
Durkee Famous Foods, Inc., 2670 Elston Ave., Chicago
Eastern Industries, Inc., Ridgefield, N. J.
Otto A. C. Hagen Corp., 929 Public Ledger Bldg., Phila.
Spencer Kellogg & Sons, Buffalo, N. Y.
Pacific Vegetable Oil Corp., 62 Townsend St.,
San Francisco 7
Portsmouth Cotton Oil Refining Corp., Portsmouth, Va. San Francisco 7
Portsmouth Cotton Oil Refining Corp., Portsmouth, Va. Proctor & Gamble Co., Cincinnati, O. J. H. Redding Co., 17 Battery Pl., N. Y. Rosenthal Bercow Co., 25 E. 26th St., N. Y. Sergeant Chem. Co., 7 Dey St., N. Y. C. F. Simonin's Sons, Phila.
Southern Cotton Oil Co., Produce Exchange, N. Y. Welch Holme & Clark Co., 439 West St., N. Y.

COUMARIN

(see also Aromatic Chemicals)

Aromatic Products, Inc., 15 E. 30th St., N. Y. Dodge & Olcott, Inc., 180 Varick St., N. Y. Dow Chemical Co., Midland, Mich. E. I. du Pont de Nemours & Co., Wilmington, Del. Fritzsche Bros., 76 Ninth Ave., N. Y. 11 General Drug Co., 170 Varick St., N. Y. Givaudan-Delawanna, 330 W. 42nd St., N. Y. Lautier Fils, 321 5th Ave., N. Y. 16 Maywood Chemical Wks., Maywood, N. J. Monsanto Chemical Wks., Maywood, N. J. Monsanto Chemical Co., 1700 S. 2nd St., St. Louis Naugatuck Aromatics, 254 Fourth Ave., N. Y. Schimmel & Co., 601 W. 26th St., N. Y. Verona Chem. Co., 26 Verona Ave., Newark, N. J.

CREOSOTE OIL (see Coal Tar Raw Materials)

CRESOL COMPOUND, U.S.P. and Technical (see Disinfectants, Coal Tar)

CRESOLS (see Coal Tar Raw Materials)

CRESYLIC ACID

American-British Chem. Supplies, 180 Madison Ave., N. Y. 16 Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., California Commercial Co., 30 Rockefeller Plaza, N. Y. California Commercial Co., 30 Rockefeller Plaza, N. John H. Calo Co., 19 Rector St., N. Y. 6 Concord Chemical Co., Moorestown, N. J. T. G. Cooper & Co., Cedar & Venango Sts., Phila. 34 Kay-Fries Chems., 180 Madison Ave., N. Y. 17 Koppers Co., Pittsburgh Oronite Chem. Co., 38 Sansome St., San Francisco 4 Reilly Tar & Chem. Corp., Indianapolis Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17 Shell Chemical Co., 4 W. 58th St., N. Y. 19 Standard Oil Co. of Calif., San Francisco

CRUTCHERS

Allied Steel & Equipment Co., Chester, N. J..
Atlas Steel Construction Co., Irvington, N. J.
Chemical & Process Machy. Corp., 146 Grand St.,
N. Y. 13 (Used)
Consolidated Prods. Co., 15 Park Row, N. Y. (Used)
Edge Moor Iron Wks., Edge Moor, Del.
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Houchin Machinery Co., Hawthorne, N. J.
Huber Machine Co., 259—46th St., Brooklyn
Industrial Process Engineers, 8 Lister Ave., Newark 5
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago
H. K. Porter Co., Oliver Bldg., Pittsburgh
Henry Simon Ltd., Cheadle Heath, England
Struthers-Wells Co., Warren, Pa.

CURE

Chipman Chem. Co., Bound Brook, N. J.
Derris, Inc., 79 Wall St., N. Y.
Enco Chem. Corp., 441 Lexington Ave., N. Y.
Greene Trading Co., 70 Pine St., N. Y.
Hammond Paint & Chem. Co., Beacon, N. Y.
Heckathorn & Co., Richmond, Calif.
Ketoid Chem. Co., 549 W. Washington, Chicago
Lenape Trading Co., 233 Broadway, N. Y.
Orbis Products Corp., 215 Pearl St., N. Y.
S. B. Penick & Co., 50 Church St., N. Y.
John Powell & Co., 1 Park Ave., N. Y.
R. J. Prentiss & Co., 110 William St., N. Y.
Frank B. Ross Co., 507—8th St., Hoboken, N. J.
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U. S. Industrial Chemicals, Inc., 60 E. 42nd St., N. Y. C.
Whitmire Research Corp., 839 S. Vandeventer, St. Louis.

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CYANIDES (see Fumigants) (see Sodium Cyanide)

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Michigan Chem. Corp., St. Louis, Mich.
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Montrose Chem. Co., 120 Lister Ave., Newark, N. J.
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Rohm & Haas Co., 222 W. Washington Sq., Phila.
Stauffer Chemical Co., 420 Lexington Ave., N. Y.
Westvaco Chem. Div., Food Machy. & Chem. Corp.,
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Boston Chem. Industries, 64 E. Brookline St., Boston 18
Brilco Laboratories, 1553 63rd St., Brooklyn 19
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Chemical Mfg. & Dist. Co., Easton, Pa.
Connecticut Chem. Research Corp., Bridgeport, Conn.
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Dow Chemical Co., Midland, Mich.
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Eagle Soap Corp., Huntington, Ind.
Elkay Prods. Co., 323 W. 16 St., N. Y. 11
Eston Chemicals, Inc., 3100 E. 26th St., Los Angeles
Fuld Bros., 702 S. Wolfe St., Baltimore
Geigy Co., Inc., 89 Barclay St., N. Y.
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Heckathorn & Co., 1000 16th St., San Francisco
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Tech Soap Mfg. Co., S. Chicago Ave., & 73 St., Chicago
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Uncle Sam Chemical Co., 575 W. 131 St., N. Y. 27
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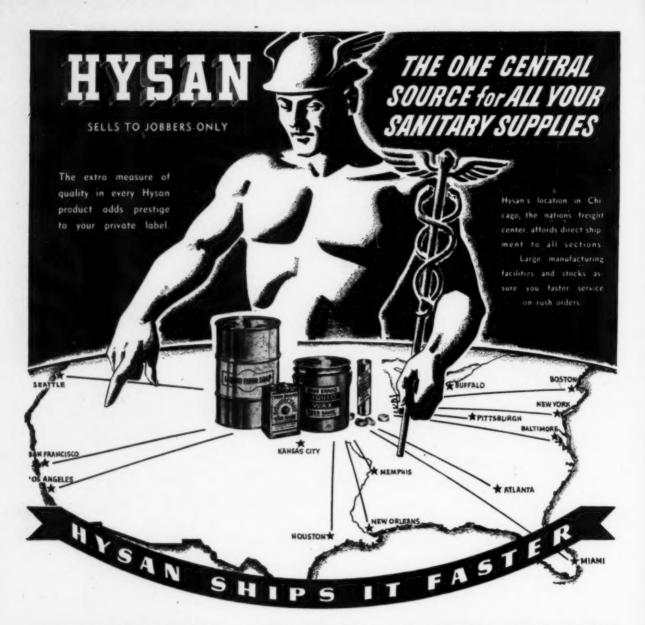
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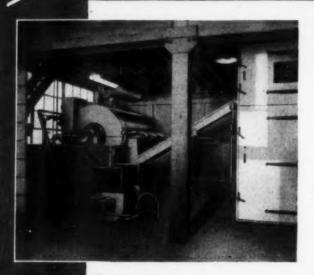
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Fuld Bros., 702 S. Wolfe St., Baltimore
Garnet Chem. Corp., 911 N. Lumber St., Allentown, Pa.
Hockwald Chem. Co., 135 Mississippi St., San Francisco
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Hockwald Chem. Co., 135 Mississippi St., San Francisco
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Los Angeles Soap Co., 617 E. 1st St., Los Angeles
M. Michel & Co., 90 Broad St., N. Y. 4
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Nopco Chemical Co., Harrison, N. J.
North Coast Chem. & Soap Wks., Seattle, Wash.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Puritan Soap Co., 573 Lyell Ave., Rochester, N. Y.
Riverside Mfg. Co., 4919 Conn St., St. Louis
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Swift & Co., Chicago
Texas Soap Mfg. Corp., 4905 Calhoun, Houston
Trio Chemical Wks., 341 Scholes St., Bklyn. 6
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Ultra Chem. Wks., Inc., 2 Wood St., Paterson, N. J.
U. S. Sanitary Specialties Corp., 1001 S. California Blvd.,
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Warwick Wax Co., 10-10 44th Ave., L. I. C., N. Y.
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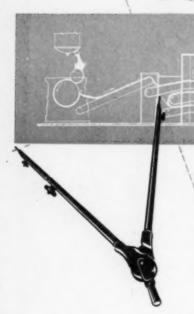
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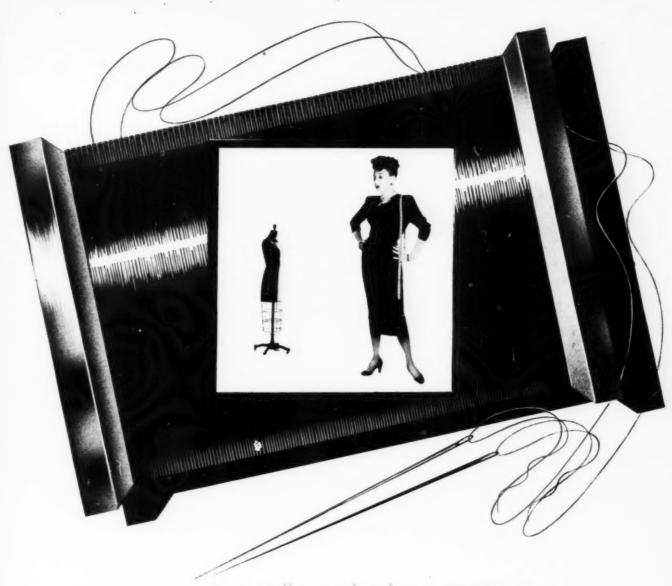
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Henri Robert, Inc., 36 Madison Ave., N. Y.
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Schimmel & Co., Sparkill, N. Y.
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Suyfleur Scientific Labs Texas
Sparhawk Co., Sparkill, N. Y.
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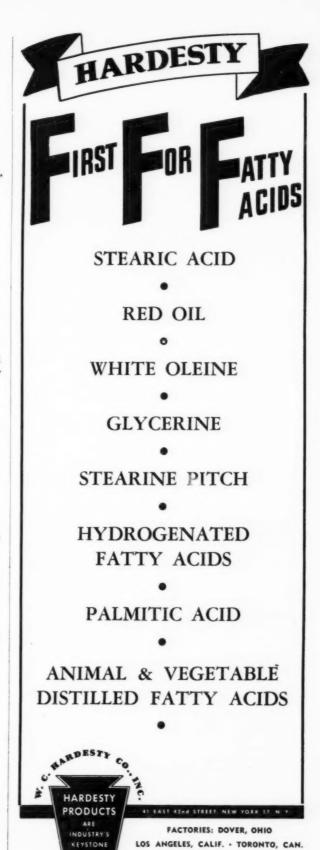
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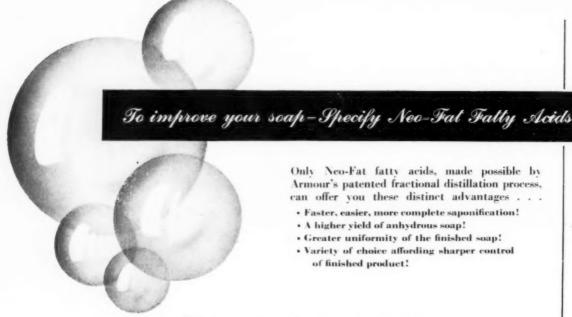
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DOUBLE DISTILLED COCO	NUT FATTY ACIDS
Titer	
Neutralization Value	
Iodine Value (Wijs)	
Color	1 FAC

DOUBLE	DISTILL	ED	AI	NIN	۸A	L	F	A	TT	Y	ACID
Neutra	lization	Va	lue								197
Iodine	Value (Wij	s).								60
Color.											

NEO-FAT	3	(Mixed	Oleic-Linoleic	Acids)
FB3+				2000

Titer									×							2	3	°C.
Neutra	liza	tic)11	1	a	lu	le	٠.										198
lodine																		
Color.						*		*	,		,				8		F	AC

NEO-FAT S-142 (Fractionated Tall Oil Acids)

Titer	. 1	be	le	M		20°C.
Neutralization Value						. 190
Iodine Value (Wijs)						. 130
Color						
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Rosin Acids		an	D	ro	×.	14%

NEO-FAT D-242

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Neutralization	1 Val	lue	 		175
Color			 	10	FAC
Oleic-Linoleic	Acid	ls	 	approx	. 30%
Rosin Acids			 	approx	. 70%

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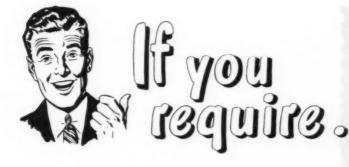
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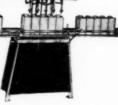
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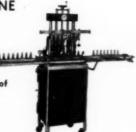
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Allied Steel & Equipt. Co., Chester, N. J.
Arenco Mach. Co., 25 W. 43rd St., N. Y. 18
Chemical & Process Machy. Corp., 146 Grand St., N. Y.
Consolidated Prods. Co., 15 Park Row, N. Y. (Used)
J. H. Day Co., 1144 Harrison Ave., Cincinnati
Filter Paper Co., 2464 S. Michigan Ave., Chicago
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago (Used) Chicago (Used)
Perl Mach. Mfg. Co., 68 Jay St., Brooklyn 1
Geo. G. Rodgers Co., 225 W. 34th St., N. Y.
Stokes & Smith Co., 4915 Summerdale Ave., Phila.

FILLING MACHINERY (for Pastes, Tubes)

Allied Steel & Equipt. Co., Chester, N. J. Allied Steel & Equipt. Co., Chester, N. J.
Arenco Mach. Co., 25 W. 43rd St., N. Y. 18
Clevon Products Co., 27-31 Mechanic St., Buffalo
Arthur Colton Co., Detroit, Mich.
Consolidated Prod. Co., 15 Park Row, N. Y. (Used)
Filter Paper Co., 2464 S. Michigan Ave., Chicago
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Karl Kiefer Machine Co., 919 Martin St., Cincinnati
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago (Used) Chicago (Used) Perl Machine Mfg. Co., 68 Jay St., Brooklyn 1 Geo. G. Rodgers Co., 225 W. 34th St., N. Y. Scientific Filter Co., 2 Franklin Sq., N. Y. 10 F. J. Stokes Machine Co., 5918 Tabor Rd., Philadelphia

FILLING MACHINERY (for free flowing dry products)

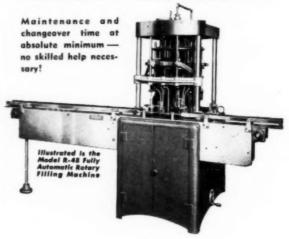
Allied Steel & Equipt. Co., Chester, N. J.
Arenco Mach. Co., 254 W. 43rd St., N. Y. 18
Hornney & Co., 420 Lexington Ave., N. Y.
M. R. M. Co., 191 Berry St., Bklyn.
Mandel Products, 207 Astor St., Newark, N. J.
National Acme Co., E. 131st St. & Coit Ave., Cleveland
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago (Used) Chicago (Used) Chicago (Used)
Packer Machinery Corp., 30 Irving Pl., N. Y.
Perl Machine Mfg. Co., 68 Jay St., Brooklyn 1
Geo. G. Rodgers Co., 225 W. 34th St., N. Y.
Scientific Filter Co., 2 Franklin Sq., N. Y. 10
U. S. Bottlers Mchy. Co., 4019 N. Rockwell St., Chicago

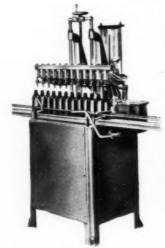
FILLING MACHINERY (for Pastes, Cans)

Allied Steel & Equipt. Co., Chester, N. J.
Arenco Mach. Co., 25 W. 43rd St., N. Y. 18
Clevon Products Co., 27-31 Mechanic St., Buffalo
Consolidated Prods. Co., 15 Park Row, N. Y. (Used)
J. L. Ferguson Co., Joliet, Ill.
Filler Machine Co., 1250 E. Montgomery St., Phila.
Filter Paper Co., 2464 S. Michigan Ave., Chicago
First Machy, Corp., 157 Hudson St., N. Y. (Used)
Hornney & Co., 420 Lexington Ave., N. Y.
Karl Kiefer Machine Co., 919 Martin St., Cincinnati
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago (Used)
Perl Mach. Mfg. Co., 68 Jay St., Brooklyn 1
Pfaudler Co., Rochester, N. Y.
Progressive Eng. Co., Torresdale, Pa.
Geo. G. Rodgers Co., 225 W. 34th St., N. Y.
Scientific Filter Co., 2 Franklin Sq., N. Y. 10
C. T. Small Mfg. Co., 1204 Ferguson Ave., St. Louis, Mo.
Sprague-Sells Corp., 308 W. Washington St., Chicago
Stokes & Smith Co., 4915 Summerdale Ave., Phila.
F. J. Stokes Machine Co., 5918 Tabor Rd., Philadelphia
Triangle Package Machy. Co. 6633 W. Diversey Blvd.
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Consolidated Prod. Co., 15 Park Row, N. Y. (Used)
J. H. Day Co., 1144 Harrison Ave., Cincinnati
Exact Weight Scale Co., Columbus, O.
J. L. Ferguson Co., Joliet, Ill.
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Frazier & Son, 33810 Cortlandt St., Belleville, N. J.
B. F. Gump Co., 412 S. Clinton St., Chicago
S. Howes Co., Silver Creek, N. Y. (Bbls.)
Johnson Automatic Sealer Co., Battle Creek, Mich.
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago (Used)
Perl Machine Mfg. Co., 68 Jay St., Brooklyn 1
Pneumatic Scale Corp., North Quincy, Mass.
F. B. Redington Co., 112 S. Sangamon St., Chicago
Geo. G. Rodgers Co., 225 W. 34th St., N. Y.
Sprout, Waldron & Co., Muncy, Pa.
F. J. Stokes Mach. Co., 5918 Tabor Rd., Philadelphia
Stokes & Smith Co., 4915 Summerdale Ave., Phila.
Stuyvesant Engineering Co., Lyndhurst, N. J.
Trangle Package Machinery Co., 6633 W. Diversey Ave.,
Chicago
Union Special Machine Co., Chicago
U. S. Automatic Box Mchy. Co., Roslindale, Boston, 31
Mass.
Weigh Right Automatic Scale Co., Joliet, Ill.

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Filter Paper Co., 2464 S. Michigan Ave., Chicago Fitrol Corp., 634 S. Spring St., Los Angeles
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Innis, Speiden & Co., 117 Liberty St., N. Y.
Johns-Manville Corp., 22 East 40th St., New York Peerless Clay & Mineral Co., Pueblo, Colo.
Scientific Filter Co., 2 Franklin Sq., N. Y. 10
Westvaco Chem. Div., Food Machy. & Chem. Corp., 405 Lexington Ave., N. Y. 17

FILTER CLAYS (see Clays; see Filter Aids.)

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Abbott Associates, 417 Park Sq. Bldg., Boston
Alsop Engineering Corp., 103 Green St., Milldale, Conn.
Cleveland Wire Cloth & Mfg. Co., 3574 E. 78th St.,
Cleveland
Commercial Filters Corp., 92 Liberty St., N. Y. 6
Filter Paper Co., 2464 S. Michigan Ave., Chicago
B. F. Gump Co., 431 S. Clinton St., Chicago
Wm. E. Hooper & Sons, Juniper & Cherry Sts.,
Philadelphia
Hornney & Co., 420 Lexington Ave., N. Y.
Independent Filter Press Co., 189 Seventh St., Brooklyn
National Filter Cloth & Weaving Co., 220 E. 42nd St.,
N. Y.
Newark Wire Cloth Co., 223 Verona Ave., Newark, N. J.
Niagara Filter Corp., 3085 Main St., Buffalo, N. Y.
J. T. Perkins Co., 669 Kent Ave., Brooklyn
Wm. R. Perrin & Co., 349 W. 23rd St., Chicago
Satisfaction Supply Co., 508 W. Broadway, N. Y.
Scientific Filter Co., 2 Franklin Sq., N. Y. 10
T. Shriver & Co., Harrison, N. J.
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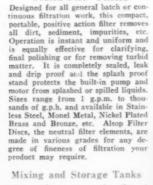
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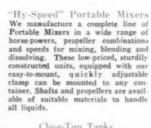
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Cuno Engineering Co., Meriden, Conn.
Filter Paper Co., 2464 S. Michigan Ave., Chicago
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Foster Pump Wks., Inc., 54 Washington St., Brooklyn
F. R. Hormann & Co., 186 Joralemon St., Brooklyn
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Sarl Kiefer Machine Co., 919 Martin St., Cincinnati
Lancaster Iron Works, Lancaster, Pa.
Mixing Equipment Co., 1067 Garson Ave., Rochester
Newman Tallow & Soap Machy. Co., 1051 W. 35 St.,
Chicago (Used)
Niagara Filter Corp., 3085 Main St., Buffalo, N. Y.
Oliver United Filters, Inc., 33 W. 42nd St., N. Y.
Permutit Co., 330 W. 42nd St., N. Y.
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Perhler Cleland Co., Galion, O.
Scientific Filter Co., 2 Franklin Sq., N. Y. 10
T. Shriver & Co., Harrison, N. J.
Sparkler Mfg. Co., 201 Lake St., Mundelein, Ill.
U. S. Bottlers Machy. Co., 4015 N. Rockwell St., Chicago
U. S. Stoneware Co., 60 E. 42nd St., N. Y. 17
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Cole Laboratories, 23rd St. & 7th Ave., L. I. City, N. Y. Connecticut Chem. Research Corp., Bridgeport 5, Conn. Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del. Fuld Bros., 702 S. Wolfe St., Baltimore
James Good Co., Susquehanna Ave. & Martha St., Phila.

Harshaw Chemical Co., 1945 E. 97 St., Cleveland 6 Imperial Prods. Co., 1600 Fontain St., Phila. Michigan Chemical Corp., St. Louis, Mich. Miranol Chemical Co., 16 Melville Pl., Irvington, N. J. Prior Chem. Corp., 420 Lexington Ave., N. Y. E. B. Snyder Labs., 2137 E. Harold St., Philadelphia Stauffer Chem. Co., 420 Lexington Ave., N. Y. Stepan Chem. Co., 1353 N. Branch St., Chicago 22 Thompson-Hayward Chem. Co., Kansas City 8, Mo. Trio Chemical Wks., 341 Scholes St., Brooklyn 6 Uncle Sam Chem. Co., 575 W. 131st St., New York Westvaco Chem. Div., Food Mach. & Chem. Corp., 405 Lexington Ave., N. Y.

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Croton Chem. Corp., 114 Liberty St., N. Y.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Eagle Soap Corp., Huntington, Ind.
Fuld Bros., 702 S. Wolfe St., Baltimore
Glyco Products Co., 26 Court St., Bklyn.
Arnold Hoffman Co., Providence, R. I.
Hysan Prods. Co., 932 W. 38th Place, Chicago
Imperial Prods. Co., 1600 Fontain St., Phila.
Johns Manville Co., 22 E. 40th St., N. Y.
Monsanto Chemical Co., 1724 South Second St., St. Louis
Niacet Chemicals Corp., Niagara Falls, N. Y.
Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey
City 2
Per-Mo Products Co., 3604 Woodland Ave., Kansas City,
Mo.
Price Fire & Water Proofing Co., Poughkeepsie, N. Y.
Protexol Corp., 32 Market St., Kenilworth, N. J.
Quaker Chem. Prods. Co., Conshohocken, Pa.
Victor Chemical Works, 141 West Jackson Bldg., Chicago

FISH OILS

(see also Brokers and Dealers)

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Atlantic Products Corp., Commercial Trust Bldg., Phila.
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John H. Calo Co., 19 Rector St., N. Y. 6
Consumers Import Co., 350 Fifth Ave., N. Y.
Falk & Co., Pittsburgh
James Good Co., Susquehanna Ave. & Martha St., Phila.
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Murray Oil Products Co., 21 West St., N. Y.
Pacific Vegetable Oil Co., 62 Townsend St., San Francisco
J. H. Redding, Inc., 17 Battery Place, N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Swan Finch Oil Corp., 30 Rockefeller Plaza, N. Y.
Swift & Co., Chicago 9
Arthur C. Trask Co., 4103 S. La Salle St., Chicago
Welch, Holme & Clark Co., 439 West St., N. Y.
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Procter & Gamble Co., Cincinnati
Schmidt Soap Products Co., 236 W. North Ave., Chicago
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Essential Chems. Co., 744 N. 4th St., Milwaukee 3
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Fuld Bros., 702 S. Wolfe St., Baltimore
P. D. George Co., 5200 N. 2nd St., St. Louis
James Good Co., Susquehanna Ave., Phila. 25
Higley Chemical Co., Dubuque, Iowa
Hockwald Chemical Co., 135 Mississippi St.,
San Francisco
Hysan Prods. Co., 932 W. 38th Place, Chicago
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Midland Labs., Dubuque, Iowa
Multi-Clean Prods., 2277 Ford Pkway., St. Paul
Peck's Products Co., 610 E. Clarence Ave., St. Louis
Shawmut Specialty Co., 313 Centre St., Boston
E. B. Robertson Prods. Co.,
700 W. Division St., Chicago
Science Industries, 609-15 Geyer Ave., St. Louis
Shawmut Specialty Co., 313 Centre St., Boston
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
Solshine Mfg. Co., 412—2nd St., Fall River, Mass.
L. Sonneborn Sons, Inc., 400 4th Ave., N. Y. 10
S. S. Stafford, Inc., 603 Washington St., N. Y.
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago
Trio Chemical Wks., 341 Scholes St., Bklyn. 6
J. A. Tumbler Labs., 423 Hanover St., Baltimore
Twin City Shellac Co., 340 Flushing Ave., Brooklyn
Uncle Sam Chem. Co., 2244 Elston Ave., Chicago
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General Floorcraft Corp., 333 Sixth Ave., N. Y.
Hild Floor Machine Co., 740 W. Washington St., Chicago
Hockwald Chem. Co., 135 Mississippi St., San Francisco
S. C. Johnson & Son, 1525 Howe St., Racine, Wisc.
Kent Co., Rome, N. Y.
S. C. Lawlor Co., 122 N. Aberdeen St., Chicago
Lincoln-Schlueter Floor Machy. Co., 1250 W. Van Buren
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Multi-Clean Prods., 2277 Ford Pkway., St. Paul
Ponsell Floor Machine Co., 220 W. 19th St., N. Y.
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American Floor Surfacing Machine Co., Toledo, O. Atlas Floor Surfacing Mach. Corp., 248 E. 34th St., N. Y. Churchill Mfg. Co., Galesburg, Ill. Clarke Sanding Machine Co., Muskegon, Mich. Continental Car-Na-Var Corp., Brazil, Ind. A. F. Dormeyer Mfg. Co., 4316 N. Kilpat'k St., Chicago Greenview Mfg. Co., 2557 Greenview Ave., Chicago Lincoln-Schlueter Floor Machy. Co., 512 S. Peoria Ave., Chicago Rex-Cleanwall Corp., Brazil, Ind. White Mop Wringer Co., Fultonville, N. Y.

FLOOR SCRUB SOAPS (see also Potash Soaps)

American Soap & Washoline Co., Cohoes, N. Y.
Ampion Corp., 47-02—5th St., Long Island City, N. Y.
Analab Labs., 285 Franklin St., Boston 10
Armour & Co., 1355 W. 31st St., Chicago
Banner Chem. Prods. Co., 60 Elm St., Newark, N. J.
Baum's Castorine Co., Rome, N. Y.
Boston Chemical Industries, 64 E. Brookline St., Boston
Brilco Labs., 1553 63rd St., Bklyn, 19
Buckingham Wax Co., 51-03 Van Dam St., L. I. City,
N. Y.
Candy & Co., 2515 W. 35th St., Chicago
Chemical Compounding Corp., 262 Huron St., Brooklyn
Chemical Mfg. & Dist. Co., Easton, Pa.
Chem. Service Co. of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Clarke Sanding Mach. Co., Muskegon, Mich.
Clifton Chemical Co., 62 William St., N. Y.
Churchill Mfg. Co., Galesburg, Ill.
CMC Laboratories Co., 15 Vandewater St., N. Y. 7
Cole Laboratories, 22-19 37th Ave., L. I. City, N. Y.
Continental Car-Na-Var Corp., Brazil, Ind.
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia
Davies-Young Soap Co., Dayton, O.
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Eagle Soap Corp., Huntington, Ind.
Empire Chem. Prods. Co., 12 Longworth Ave.,
Newark, N. J.
Essential Chemicals Co., 744 N. 4th St., Milwaukee 3
Franklin Research Co., 5134 Lancaster Ave., Phila.
Fuld Bros., 702 S. Wolfe St., Baltimore
Gaylord Chem. Co., 701 Woodswether Rd., Kansas City 6, Mo.
Gaskill Products, 9 S. Letitia St., Phila.
James Good, Inc., 2116 Susquehanna Ave., Phila.
Haaley Soap Co, Pierce & Orthodox Sts., Philadelphia
Higley Chemical Co., Dubuque, Iowa
Hockwald Chem. Co., 135 Mississippi St., San Francisco
Hubman Supply Co., 225 N. 4th St., Columbus, O.
Hysan Prods. Co., 932 W. 38th Place, Chicago
S. C. Johnson & Son, 1525 Howe St., Racine, Wisc.
Knox-All Corp., 1005 E. Sumner Ave., Indianapolis
Kranich Soap Co., 60 Richards St., Brooklyn
H. Krevit Co., 73 Walton St., New Haven, Conn.
Lanair Chem. Corp., 236 W. North Ave., Chicago

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for cleaning, waxing, and maintaining floors

COMPLETE LINE OF MAINTENANCE MATERIALS

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Los Angeles Soap Co., 617 E. 1st St., Los Angeles M. & H. Laboratories, 2705 Archer Ave., Chicago Midland Labs., Dubuque, Iowa Multi-Clean Prods., 2277 Ford Pkwy., St. Paul Murro Chemical Co., P. O. Box 185, Asheville, N. C. Mutual Chem. & Supply Co., 257 W. Gay St., Columbus, Ohio Ohio

Nopco Chem. Co., Harrison, N. J.
N. Y. Soap Co., 258 Third St., Brooklyn
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Oil-Kraft, Inc., 3330 Beekman St., Cincinnati
Piatt & Smillie Chemicals, 2329 Pine St., St. Louis 3 Piett & Smillie Chemicais, 2225 Fine St., St. Louis of Procter & Gamble Co., Cincinnati Puritan Chem. Co., Atlanta, Ga.
Puritan Soap Co., 573 Lyell Ave., Rochester, N. Y.
Rex-Cleanwall Corp., Brazil, Ind.
Theo. B. Robertson Prods. Co., 700 W. Division St.,

Chicago Rochester Germicide Co., 333 Hollenbeck St., Rochester 5,

Rochester Germicide Co., 333 Hollenbeck St., Rochester 5, N. Y.

Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.
Savin Products Co., 1221 Dorchester Ave., Boston 25
Schaeffer Mfg. Co., 102 Barton St., St. Louis
Science Inoustries, 609-15 Geyer Ave., St. Louis
Science Inoustries, 609-15 Geyer Ave., St. Louis
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
E. B. Snyder Labs., 2137 E. Harold St., Philadelphia
Solshine Mfg. Co., 412—2nd St., Fall River, Mass.
S. S. Stafford, Inc., 603 Washington St., N. Y.
John T. Stanley Co., 642 W. 30th St., N. Y.
John T. Stanley Co., 642 W. 30th St., N. Y.
Superior Soap Corp., 121 Nostrand Ave., Brooklyn
Swift & Co., Chicago
Tech. Soap Mfg. Co., S. Chicago Ave. & 73rd St., Chicago
Texol Chemical Works, 75 Ward St., Worcester, Mass.
Thompson-Hayward Chem. Co., Kansas City, Mo.
Trio Chemical Wks., 341 Scholes St., Bklyn. 6
J. A. Tumbler Labs., 423 Hanover St., Baltimore
Twi-Laq Chemical Co., 25 N. Portland Ave., Bklyn.
Ultra Cnem. Wks., Box 1536, Paterson, N. J.
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.
U. S. Sanitary Spec. Corp., 1001 S. California Blvd.,
Chicago 12
James Varley & Sons. 1200 Switzer Ave. St. Louis

U. S. Sanitary Spec. Corp., 1001 S. California Chicago 12 James Varley & Sons, 1200 Switzer Ave., St. Louis Vestal, Inc., 4963 Manchester St., St. Louis 10 T. F. Washburn Co., 2244 Elston Ave., Chicago Windsor Wax Co., 611 Newark St., Hoboken, N. J. G. H. Wood & Co., Toronto, Ont., Canada Wyandotte Chemicals Corp., Wyangotte, Mich.

FLOOR WAX APPLICATORS (see Applicators)

FLOOR WAXES

American Wax Co., 13-26 128th St., College Point, L. I. Ampion Corp., 47-02—5th St., Long Island City, N. Y. Analab Labs., 285 Franklin St., Boston 10 Antiseptol Co., 5524 Northwest Highway, Chicago Banner Chemical Products Co., 60 Elm St., Newark, N. J. Baums Castorine Co., 200 Mathew St., Rome, N. Y. Boston Chemical Industries, 64 E. Brookline St., Boston Bri-Test Prods. Corp., 845 E. 138th St., New York Buckingham Wax Corp., Van Dam St. & Borden Ave., L. I. City, N. Y. Candy & Co., 2515 W. 35th St., Chicago Cary Mfg. Co., 4586 Felton St., San Diego 4, Calif. Chemical Service Co., Baltimore Chemical Mfg. & Dist. Co., Easton, Pa. Chicago Sanitary Prods. Co., 3100 Throop St., Chicago Churchill Mfg. Co., Galesburg, Ill. Clarke Sanding Mach. Co., Muskegon, Mich. Clifton Chemical Co., 62 William St., N. Y. Continental Car-Na-Var Corp., Brazil, Ind. Davies-Young Soap Co., Dayton, O. Derris, Inc., Metuchen, N. J. E. I. du Pont de Nemours & Co., 10 Longworth St., Newark. Eagle Soap Corp., Huntington, Ind.
Empire Chemical Prods. Co., 10 Longworth St., Newark, Essential Chems. Co., 744 N. 4th St., Milwaukee 3



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CLEANER

Heavy Duty Liquid Soap Type

CLEANER

GLASS CLEANERS

(WAX TYPE)

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DRUM LOTS



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Federal Varnish Division, S. Ashland Ave. at 29th St., Franklin Research Co., 5134 Lancaster Ave., Phila. Fuld Bros., 702 S. Wolfe St., Baltimore Gaylord Chem. Co., 701 Woodswether Rd., Kansas City 6, Mo. Gaylord Chem. Co., 701 Woodswetner Rd., Kansas City 6, Mo.

James Good, Inc., 2116 Susquehanna Ave., Phila. Harley Soap Co., Pierce & Orthodox Sts., Phila. Higley Chemical Co., Dubuque, Iowa Hockwald Chem. Co., 135 Mississippi St., San Francisco Arnold Hoffman Co., Providence, R. I.

R. M. Hollingshead Corp., Camden, N. J.

Hunt Mfg. Co., Lisbon Rd., Cleveland Hysan Prods. Co., 1600 Fontain St., Phila. 21

S. C. Johnson & Son, 1525 Howe St., Racine, Wisc. Jones Products, 167 Second St., Cambridge, Mass. Knox-All Corp., 1005 E. Sumner Ave., Indianapolis H. Krevit & Co., 73 Welton St., New Haven, Conn. Lewis Soap & Chem. Co., 383 Seventh St., Oakland, Calif. Manhattan Kreole Prods., 172 N. 10th St., Brooklyn Midland Labs., Dubuque, Iowa M. & H. Laboratories, 2703 Archer Ave., Chicago Multi-Clean Prods., 2277 Ford Pkwy., St. Paul Mutual Chem. & Supply Co., 257 W. Gay St., Colmubus, Ohio Ohio
Oil Specialties & Refining Co., 18 Bridge St., Bklyn.
Oil-Kraft, Inc., 3330 Beekman St., Cincinnati
Peck's Prods., 610 E. Clarence Ave., St. Louis
Perrow Chemical Co., Hurt, Va.
Puritan Chem. Co., Atlanta, Ga.
Rex-Cleanwall Corp., Brazil, Ind.
Theo. B. Robertson Prods. Co., 700 W. Division St.,
Chiago. Rex-Cleanwall Corp., Brazil, Ind.
Theo. B. Robertson Prods. Co., 700 W. Division St.,
Chicago
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.
Schaeffer Mfg. Co., 102 Barton St., St. Louis
Science Industries, 609-15 Geyer Ave., St. Louis
Shawmut Specialty Co., 313 Centre St., Boston
Shell Oil Co., 50 W. 50th St., N. Y. 20
Shield-All Co., 99-18 43rd Ave., Corona, N. Y.
Slick-Shine Co., 207 Astor St., Newark, N. J.
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
Solshine Mfg. Co., 412—2nd St., Fall River, Mass.
S. S. Stafford, Ind., 603 Washington St., N. Y.
Standard Oil Co. (Calif.), 225 Bush St., San Francisco
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago
H. F. Staples Co., Medford, Mass.
Superior Soap Corp., 121 Nostrand Ave., Brooklyn
Texol Chem. Wks., 75 Ward St., Worcester, Mass.
Trio Chem. Wks., 341 Scholes St., Bklyn.
J. A. Tumbler Labs., 423 Hanover St., Baltimore
Twi-Laq Chemical Co., 25 N. Portland Ave., Brooklyn
Twin City Shellac Co., 340 Flushing Ave., Brooklyn
Twin City Shellac Co., 340 Flushing Ave., Brooklyn
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.
U. S. Sanitary Specialties Corp., 1001 S. California Blvd.,
Chicago 12
Vestal, Inc., 4963 Manchester St., St. Louis 10
Victory Chem. Co., 148 Fairmount Ave., Phila.
T. F. Washburn Co., 2244 Elston Ave., Chicago.
Wilco Co., 4425 Bandinni Blvd., Los Angeles
Windsor Wax Co., Inc., 611 Newark St., Hoboken, N. J. Wictory Chem. Co., 2244 Elston Ave., Chicago. T. F. Washburn Co., 2244 Elston Ave., Chicago. Wilco Co., 4425 Bandinni Blvd., Los Angeles Windsor Wax Co., Inc., 611 Newark St., Hoboken, N. J. G. H. Wood & Co., Toronto, Canada

FLUORIDES

(see also Dealers)

Aluminum Co. of America, 641 Gulf Bldg., Pittsburgh American Cyanamid & Chem. Corp., 30 Rockefeller Plaza, N. Y.

American Fluoride Corp., 151 W. 19th St., N. Y.
Blockson Chemical Co., Joliet, Ill.
Croton Chem. Corp., 114 Liberty St., N. Y.

E. I. du Pont de Nemours & Co., Wilmington, Del.
Foote Mineral Co., 1609 Summer St., Philadelphia
General Chemical Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
Harshaw Chemical Co., 1945 97th St., Cleveland
Innis, Speiden & Co., 117 Liberty St., N. Y.
Lindsay Light & Chem. Co., West Chicago, Ill.
Merck & Co., Rahway, N. J.
Penna. Salt Mfg. Co., 1000 Widener Bldg., Phila.
Pfaltz & Bauer, 350 Fifth Ave., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.

Henry Sundheimer, Inc., 103 Park Ave., N. Y. Jos. Turner & Co., Ridgefield, N. J. Welch, Holme & Clark Co., 439 West St., N. Y. 14

FLYPAPER and RIBBONS

Russell Sales & Mfg. Co., 15 Park Row, N. Y. R. E. Tongue & Bro., Alleghany and Amber Sts., Phila.

FLY SPRAYS (see Household Insecticide Sprays)

FOAMING AGENTS (see Saponin; also Detergents, Synthetic; also Wetting Agents)

FOOT BATHS (Rubber)

Stalwart Rubber Co., Bedford, O. U. S. Rubber Co., Market & South Sts., Passaic, N. J.

FORMALDEHYDE

(see also Brokers and Dealers)

American-British Chemical Supplies, 180 Madison Ave., N. Y. Celanese Corp., 180 Madison Ave., N. Y. 16 Cliffs-Dow Chem. Co., Marquette, Mich. Commercial Solvents Corp., 17 E. 42nd St., N. Y. 17 E. I. du Pont de Nemours & Co., Wilmington, Del. Wm. S. Gray Co., 342 Madison Ave., N. Y. Harshaw Chemical Co., 1945 E. 97 St., Cleveland 6 Heyden Chem. Co., 393 7th Ave., N. Y. Innis, Speiden & Co., 117 Liberty St., N. Y. Kay-Fries Chemicals, 180 Madison Ave., N. Y. 16 Mallinckrodt Chemical Work, St. Louis, Mo. Merck & Co., Rahway, N. J.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. Solvay Sales Div., Allied Chemicals & Dye Corp., 40 Rector St., N. Y. 6
Jos. Turner & Co., Ridgefield, N. J.

FORMALDEHYDE CANDLES

Bauer & Black, Chicago Cenol Co., 4250 N. Pulaski Ave., Chicago Depree Chem. Co., Holland, Mich.

FORMULATION (Product Formulation)

R. Gesell, Inc., 206 W. Houston St., N. Y. E. B. Snyder Labs., 2137 E. Harold St., Phila. 25 Stevens Wiley Mfg. Co., Hancock & W. Berks Sts., Phila. 22 U. S. Testing Co., 1415 Park Ave., Hoboken, N. J.

FRAMES (Soap)

Consolidated Prods. Co., 15-21 Park Row, N. Y. (Used) Houchin Machinery Co., Hawthorne, N. J. Huber Machine Co., 259 49th St., Brooklyn Littleford Bros., 451 E. Pearl St., Cincinnati Newman Tallow & Soap Mach. Co., 1051 W. 35th St., Chicago Henry Simon Ltd., Cheadle Heath, England

FULLERS EARTH

American Cyanamid & Chem. Corp., 30 Rockefeller Plaza, N. Y.
Atlantic Refining Co., 260 S. Broad St., Philadelphia Attapulgus Clay Co., 210 W. Washington Sq., Phila. Chas B. Chrystal Co., 53 Park Pl., N. Y. Filtrol Corp., 634 S. Spring St., Los Angeles Floridin Co., 200 Liberty St., Warren, Pa. Fullers Earth Co., 2049 E. 100th St., Cleveland Hammill & Gillespie, 225 Broadway, N. Y. Harshaw Chemical Co., 1945 E. 97th St., Cleveland Heckathorn & Co., Richmond, Calif. Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y. Innis, Speiden & Co., 117 Liberty St., N. Y.

FULLERS EARTH (Contd.)

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Jas. H. Rhodes & Co., 157 W. Hubbard St., Chicago Rosenthal Bercow, 25 E. 26th St., N. Y. 10 L. A. Salomon & Bro., 216 Pearl St., N. Y. Sinclair Refining Co., East Chicago, Ind. Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago Tamms Silica Co., 228 N. La Salle St., Chicago United Clay Mines Corp., 101 Oakland St., Trenton, N. J. Chas. A. Wagner Co., 813 Callowhill St., Phila. Welch, Holme & Clark Co., 439 West St., N. Y. Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.

FUMIGANTS (Cyanides, Chlorpicrin, Methyl Bromide, etc.)

American-British Chem. Supplies, 180 Madison Ave., N. Y. 16
American Cyanamid & Chem. Corp., 30 Rockefeller Plaza, N. Y.
Carbide & Carbon Chemicals Corp., 30 E. 42nd St., N. Y.
Commercial Solvents Corp., 17 E. 42nd St., N. Y.
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Eston Chemicals, Inc., 3100 E. 26th St., Los Angeles
Heyden Chemical Corp., 393 7th Ave., N. Y. 1
Innis, Speiden & Co., 117 Liberty St., N. Y.
Kay-Fries Chemicals, Inc., 180 Madison Ave., N. Y.
Michigan Chem. Corp., St. Louis, Mich.
Penn. Salt Mfg. Co., Widener Bldg., Phila.
Rohm & Haas Co., Inc., 222 W. Washington Sq.,
Philadelphia Philadelphia Philadelphia
Stauffer Chem. Co., 420 Lexington Ave., N. Y.
U. S. Industrial Chemicals, Inc., 60 E. 42nd St., N. Y.
Westvaco Chem. Div., Food Machy. & Chem. Corp., 405
Lexington Ave., N. Y.
Wyandotte Chem. Corp., Wyandotte, Mich.

GARBAGE CANS (see Metal Pails)

GAS MASKS (also Dust Masks, Respirators)

Davis Emergency Equip. Co., 43 Halleck St., Newark, New Jersey Goggle Parts Co., 1468 W. 9th St., Cleveland Mine Safety Appliances Co., Braddock, Thomas & Meade Sts., Pittsburgh, Pa. Willson Products Co., 2nd & Washington St., Reading, Pa.

GAUGES (see Instruments)

GERANIOL (see Aromatic Chemicals)

GERANIUM OIL (see Essential Oils)

GERANYL ACETATE (see Aromatic Chemicals)

GLASS BOTTLES and JARS (see Bottles)

GLASS and WINDSHIELD CLEANERS

Ampion Corp., 47-02—5th St., Long Island City, N. Y. An-Fo Mfg. Co., 3129 Elmwood Ave., Oakland, Calif. Baird & McGuire, Inc., Holbrook, Mass. B. T. Babbitt, Inc., 386 4th Ave., N. Y. 16 Barton Chem. Co., 3907 S. Langley Ave., Chicago Boston Chemical Industries, 64 E. Brookline St., Boston 18 Buck-Jack Co., 3056 Federal St., Baltimore Cadet Laboratories, 10 Clarence St., Worcester 5, Mass. Chemical Mfg. & Dist. Co., Easton, Pa. Chemical Service Co. of Baltimore, Howard & West Sts., Balt. 30 Balt. 30
Churchill Mfg. Co., Galesburg, Ill.
Clifton Chemical Co., 62 William St., N. Y.
Cole Labs., 22-19—37th Ave., Long Island City
Davies-Young Soap Co., Dayton 1, O.
Essential Chems. Co., 744 N. 4th St., Milwaukee 3
Fuld Bros., 702 S. Wolfe St., Baltimore
James Good, Inc., Kensington, Phila.
Goulard & Olena, Inc., Skillman, N. J.

Higley Chemical Co., Dubuque, Iowa
Hockwald Chem. Co., 135 Mississippi St., San Francisco
R. M. Hollingshead Corp., Camden, N. J.
Hysan Prods. Co., 932 W. 38th Place, Chicago
Imperial Prods. Co., 1600 Fontain St., Phila.
Industrial Labs., 17-19 W. Conway St., Baltimore
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
Kinner Prods. Co., Pataskala, Ohio
Lewis Soap & Chem. Co., Oakland, Calif.
Lorenz Chemical Co., 135 N. 32nd Ave., Omaha
Manhattan Kreole Prods., 172 N. 10th St., Brooklyn
M. Michel & Co., 90 Broad St., N. Y.
Midland Labs., Dubuque, Ia.
M. & H. Laboratories, 2703-5 Archer Ave., Chicago
Nopco Chem. Co., Harrison, N. J. Nopco Chem. Co., Harrison, N. J. Puritan Chem. Co., Atlanta Theo. B. Robertson Prods. Co., 700 W. Division St., Theo. B. Robertson Prods. Co., 700 W. Division St., Chicago
Science Industries, 609-15 Geyer Ave., St. Louis
Shell Oil Co., 50 W. 50th St., N. Y. 20
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
Solshine Mfg. Co., 44 Brookline St., Cambridge, Mass.
Thompson-Hayward Chem. Co., Kansas City 8, Mo.
Transmotive Labs., 2550 S. Michigan Ave., Chicago
Trio Chemical Wks., 341 Scholes St., Brooklyn 6
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
U. S. Sanitary Spec. Corp., 1001 S. California Blvd.,
Chicago 12 Chicago 12 Universal Chlorinator Co., 3418 W. Pico Blvd., Los Wilco Co., 4425 Bandinni Blvd., Los Angeles

GLUES (see Adhesives)

GLYCERINE (Refined)

Armour & Co., 1355 W. 31st St., Chicago
Arnold, Hoffman & Co., Providence, R. I.
John H. Calo Co., 19 Rector St., N. Y. 6
Century Stearic Acid Candle Wks., 41 E. 42nd St., N. Y.
Colgate-Palmolive-Peet Co., Jersey City, N. J.
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Garrigues, Stewart & Davies, Inc., 40 Rector St., N. Y.
A. Gross & Co., 295 Madison Ave., N. Y.
Hardesty & Co., 60 E. 42nd St., N. Y.
W. C. Hardesty Co., 41 E. 42nd St., N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Los Angeles Soap Co., Los Angeles, Calif.
Leo Pasternak, 110 William St., N. Y. (Brokers)
Procter & Gamble Co., Cincinnati
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
C. J. Schellings & Co., 251 Pearl St., N. Y. (Brokers)
Werner G. Smith Co., 2191 W. 110 St., Cleveland 2
Shell Chemical Co., 4 W. 48th St., N. Y. 19
Swift & Co., Union Stock Yards, Chicago
Tennessee Soap Co., 1702 N. Thomas Ave., Memphis 1,
Tenn. Arthur C. Trask Co., 4103 S. La Salle St., Chicago M. Werk Co., St. Bernard, Cincinnati Allen B. Wrisley Co., 6801 West 65th St., Chicago

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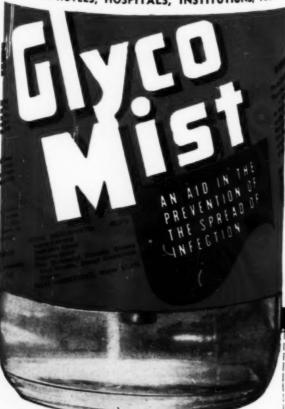
E. B. Badger Co., 25 Pitts St., Boston William Garrigue & Co., 9 S. Clinton St., Chicago Alan Porter Lee, Inc., 150 Broadway, N. Y. Project Construction Corp., 39 Broadway, N. Y. 6 Ernest Scott & Co., Fall River, Mass. Swenson Evaporator Co., Harvey, Ill. Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

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GOGGLES (see Gas Masks, etc.)

GREASE CLEANING COMPOUND (see Cleaners, Liquid)

GREASES (See Tallow)

GREASES, LUBRICATING (see Petroleum Bases)

GREEN SOAP (see Potash Soap)

GRINDING MACHINERY (for milling, pulverizing, etc.)

Abbe Engineering Co., 50 Church St., N. Y.
American Pulverizer Co., 18th & Austin Sts., St. Louis
Allied Steel & Equipt. Co., Chester, N. J.
Consolidated Prods. Co., 15 Park Row, N. Y. (Used)
J. H. Day Co., 1144 Harrison Ave., Cincinnati
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Gruendler Patent Crusher & Pulverizer Co., 900 N. First
St., St. Louis
B. F. Gump Co., 1325 S. Cicero Ave., Chicago
Houchin Machy. Co., Hawthorne, N. J.
Huber Machine Co., 259 46th St., Brooklyn
Kent Machine Works, 39 Gold St., Brooklyn
Lancaster Iron Works, Lancaster, Pa.
J. M. Lehmann Co., Lyndhurst, N. J.
Newman Tallow & Soap Mach. Co., 1051 W. 35th St.,
Chicago (Used)
Olsen & Tilgner Mfg. Co., 2276 Elston Ave., Chicago
H. K. Porter Co., 49th & Harrison Sts., Pittsburgh
Prater Pulverizer Co., 1829 S. 55th Ave., Chicago
Pulverizing Machinery Co., Chatham Rd., Summit, N. J.
Raymond Pulverizer Div., 1314 N. Branch St., Chicago 22
Chas. Ross & Sons, 150 Classon Ave., Brooklyn
Patterson Foundry & Machine Co., East Liverpool, Ohio
Sprout Waldron & Co., Muncy, Pa.
Stephens-Adamson Mfg. Co., Aurora, Ill.
F. J. Stokes Machine Co., Philadelphia, Pa.
Sturtevant Mill Co., Dorchester, Boston 22
Troy Engine & Mach. Co., Troy, Pa.
U. S. Stoneware Co., Akron 9, O.
Western Roy Alan Corp., Torrance, Calif.
Williams Patent Crusher & Pulverizer Co., St. Louis

GUMS (Arabic, Karaya, Tragacanth, etc.)

Albert Albek, Inc., 515 S. Fairfax Ave., Los Angeles American Cyanamid & Chem. Corp., 30 Rockefeller Plaza, N. Y.
C. W. Campbell Co., 157 Chambers St., N. Y.
Consumers Import. Co., 350 Fifth Ave., N. Y.
T. G. Cooper & Co., Cedar & Venango Sts., Philadelphia Wm. Diehl & Co., 336 W. 42nd St., N. Y. 18
Dodge & Olcott, Inc., 180 Varick St., N. Y.
Greene Trading Co., 60 Wall St., N. Y. 5 (Agents for Foreign Sellers)
Industrial Raw Materials Corp., 52 Wall St., N. Y.
J. L. Hopkins & Co., 220 Broadway, N. Y.
O. G. Innes Corp., 82 Wall St., N. Y.
Innis, Speiden & Co., 117 Liberty St., N. Y.
George H. Lincks, 155 John St., N. Y.
National Starch Products, Inc., 270 Madison Ave., N. Y.
Neuman-Buslee & Wolfe, 224 W. Huron St., Chicago
Onyx Oil & Chem. Co., Warren & Norris Sts., Jersey
City 2, N. J.
Orbis Products Corp., 215 Pearl St., N. Y.
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Rosenthal Bercow Co., 25 E. 26th St., N. Y.
William H. Scheel, Inc., 38 Franklin St., Bklyn.
Stein Hall & Co., 285 Madison Ave., N. Y.
Thurston & Braidich, 286 Spring St., N. Y.
Arthur C. Trask Co., 4102 S. La Salle St., Chicago
U. S. Industrial Chemicals, Inc., Lincoln Bldg., N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y.
G. A. Wharry & Co., 95 Broad St., N. Y. 4

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Chicago Sanitary Prod. Co., 3100 S. Throop St., Chicago 8
Clarkson Co., 919 N. 9 St., Phila. 23
Davies-Young Soap Co., Dayton 1, O.
Essential Chems. Co., 744 N. 4th St., Milwaukee 3
Fuld Bros., 702 S. Wolfe St., Baltimore 3
Hysan Prods. Co., 923 W. 38th Pl., Chicago
Imperial Prods. Co., 1600 Fontain St., Phila. 21
Murro Chemical Co., P. O. Box 185, Ashevile, N. C.
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey
City 2
Royal Soap & Chem. Co., 3486 Union Pacific Ave., Los
Angeles 23
Science Industries, 609-15 Geyer Ave., St. Louis
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
Sugar Beet Prods. Co., Saginaw, Mich.
Superior Chem. Prods., 47 N. Second St., Phila. 6
Trio Chemical Wks., 341 Scholes St., Brooklyn 6

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Buck-Jack Co., 3056 Federal St., Baltimore Cadet Laboratories, 10 Clarence St., Worcester 5, Mass. Chem. Mfg. & Dist. Co., Easton, Pa.

Chem. Service Co. of Balto., Howard & West Sts., Balto. Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago Churchill Mfg. Co., Galesburg, Ill. Clarkson Co., 919 N. 9 St., Phila. 23

Colgate-Palmolive-Peet Co., Jersey City, N. J.

Columbia Soap & Chem. Co., Inc., 324 Leavenworth St., San Francisco

Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia Cudahy Packing Co., 221 N. La Salle St., Chicago Davies Young Soap Co., Dayton, O.

Eagle Soap Corp., Huntington, Ind.

J. Eavenson & Sons, Del. & Penn Sts., Camden, N. J.

Essential Chemicals Co., 744 N. 4th St., Milwaukee 3

Flash Chem. Co., 1600 2nd St., Cambridge, Mass.

Fuld Bros., 702 S. Wolfe St., Baltimore

Gaylord Chem. Co., 701 Woodswether Rd., Kansas City L. E. Hicks & Son, 507 S. Grove Ave., Oak Park, Ill. Higley Chem. Co., Dubuque

Hockwald Chem. Co., 135 Mississippi St., San Francisco R. M. Hollingshead Co., Camden, N. J.

Hubman Supply Co., 225 N. 4th St., Columbus, O. Hysan Prods. Co., 932 W. 38th Place, Chicago Imperial Prods. Co., 1600 Fontain St., Phila.

Insto Co., 110 Center St., Los Angeles
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Jansen Soap & Chemical Co., 324 Leavenworth St., San Francisco, Cal. Kamen Soap Prods. Co., 233 Broadway, N. Y. 7 Kearny Mfg. Co., Kearny, N. J. Lanair Chem. Corp., 236 W. North Ave., Chicago 10 Lorenz Chem. Co., 135 N. 32nd Ave., Omaha Los Angeles Soap Co., 617 E. First St., Los Angeles Luxury Soap Co., 165 Augusta St., Irvington, N. J. Mione Mfg. Co., Collingdale, Pa. Murro Chemical Co., P. O. Box 185, Asheville, N. C. National Sanitary Prods. Co., 217 N. 2nd St., St. Louis North Coast Soap & Chem. Wks., Seattle, Wash. Peck's Prods. Co., 610 E. Clarence Ave., St. Louis Procter & Gamble Co., Cincinnati Puritan Chem. Co., Atlanta, Ga. Puritan Soap Co., 573 Lyell Ave., Rochester, N. Y. Theo. B. Robertson Prods. Co., 700 W. Division St., Chicago Royal Soap & Chem. Co., 3486 Union Pacific Ave., Los Angeles 23 Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J. Schmidt Soap Products Co., 236 W. North Ave., Chicago Science Industries, 609-15 Geyer Ave., St. Louis Skat Co., Hartford, Conn. Skotch Prods. Corp., 2710 Detroit Ave., Cleveland E. B. Snyder Labs., 2137 E. Harold St., Phila. 25 Stepan Chem. Co., 1353 N. Branch St., Chicago 22 John T. Stanley Co., 642 W. 30th St., N. Y. Sugar Beet Prods. Co., Saginaw, Mich. Superior Soap Corp., 121 Nostrand Ave., Brooklyn Swift & Co., Chicago
Trio Chem. Wks., 341 Scholes St., Bklyn.
J. A. Tumbler Labs., 423 Hanover St., Baltimore United Cleanser Mfg. Co., Cambridge, Mass.
U. S. Sanitary Spec. Corp., 1001 S. California Blvd., Chicago 12 Utility Co., 636 W. 44th St., N. Y. Vanco Co., Manchester, Conn.
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Clifton Chemical Co., 62 William St., N. Y.
Crystal Soap & Chem. Co., 6300 State Rd., Phila.
E. F. Drew Co., 15 E. 26th St., N. Y. 10
Eagle Soap Corp., Huntington, Ind.
J. Eavenson & Sons, Camden, N. J.
Essential Chemicals, 744 N. 4th St., Milwaukee
Fuld Bros. 702 S. Wolfe St., Baltimore
Gaylord Chem. Co., 701 Woodswether Rd., Kansas City, L. E. Hicks & Son, 507 S. Grove Ave., Oak Park, Ill.
Imperial Prods. Co., 1600 Fontain St., Phila. 21
Hockwald Chem. Co., 225 N. 4th St., Columbus, O.
Hysan Prods. Co., 1600 Fontain St., Phila. 21
Hockwald Chem. Co., 1600 Fontain St., Phila.
Insto Co., 110 Center St., Los Angeles
Lanair Chem. Corp., 236 W. North Ave., Chicago
Murro Chemical Co., P. O. Box 185, Asheville, N. C.
National Milling & Chem. Co., 4601 Nixon St., Phila. 27
Packwood Mfg. Co., St. Louis
Plunkett Chemical Co., 3500 S. Morgan Ave., Chicago 9
Port Huron Detergent Co., Port Huron, Mich.
Presto Mfg. Co., Myrtle and Curfew Sts., St. Paul, Minn.
Procter & Gamble Co., Cincinnati
Puritan Chem. Co., 573 Lyell Ave., Rochester, N. Y.
Theo. B. Robertson Prods. Co., 700 W. Division St.,
Chicago

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Sugar Beet Prods. Co., Saginaw, Mich.
Superior Soap Corp., 121 Nostrand Ave., Brooklyn Swift & Co., Chicago
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U. S. Sanitary Specialties Corp., 1001 S. California Ave., Chicago 12
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Victor Chemical Works, 141 Jackson Blvd., Chicago, Ill.
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James Good, Inc., Kensington, Phila.
Hockwald Chem. Co., 30 Bluxome St., San Francisco
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Imperial Prods. Co., 1600 Fontain St., Phila.
Hysan Prods. Co., 932 W. 38th Place, Chicago
Theo. B. Robertson Prods. Co.
700 W. Division St., Chicago, Ill.
Science Industries, 609-15 Geyer Ave., St. Louis.
E. B. Snyder Labs., 2137 E. Harold St., Philadelphia
John T. Stanley Co., Inc., 642 W. 30th St., N. Y.
Thompson Hayward Chem. Co., Des Moines, Iowa
Trio Chemical Wks., 341 Scholes St., Bklyn. 6
Washine-National-Sands, Inc., 37-02 Northern Blvd.,
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Baums Castorine Co., 200 Mathew St., Rome, N. Y.
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Exterminating Materials Co., 555 W. 22nd St., N. Y.
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Fuld Bros., 702 S. Wolfe St., Baltimore
Geigy Co., 89 Barclay St., N. Y.
James Good, Inc., 2116 Susquehanna Ave., Phila.
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Harley Soap Co., Pierce & Orthodox Sts., Phila.
Harrison Oil Co., 5110 N. 35th St., Milwaukee
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James Varley & Sons, 1200 Switzer Ave., St. Louis Wictory Chem. Co., 148 Fairmount Ave., Philadelphia Virginia-Carolina Chem. Corp., Richmond, Va. Vliet & Co., 638 Monroe St., Brooklyn Robert C. White Co., 614 Fairmount Ave., Philadelphia Virginia-Carolina Chem. Corp., Richmond, Va. Vliet & Co., 638 Monroe St., Brooklyn Robert C. White Co., 611 Newark St., Hoboken, N. J. G. H. Wood & Co., 141 Fairmount A

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Brileo Labs., 1553-63rd St., Bklyn, 19
Chem. Mfg. & Dist. Co., Easton, Pa.
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Clifton Chemical Co., 62 William St., N. Y.
Cole Labs., 22-19 37th Ave., L. I. City, N. Y.
Eagle Soap Corp., Huntington, Ind.
Elkay Products Co., 323 W. 16th St., N. Y.
Exterminating Materials Co., 555 W. 22nd St., N. Y.
Fairfield Labs., Inc., 417 Cleveland Ave., Plainfield, N. J.
Fuld Bros., 702 S. Wolfe St., Baltimore
Geigy Co., 89 Barclay St., N. Y.
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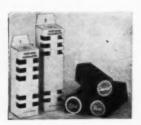
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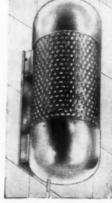




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J. A. Tumbler Labs., 423 Hanover St., Baltimore Ultra Chem. Wks., 2 Wood St., Paterson, N. J. Uncle Sam Chemical Co., 673 W. 131st St., N. Y. C. U. S. Sanitary Specialties Corp., 1003 S. California Blvd., Chicago 12
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Carbide & Carbon Chemicals, 30 E. 42nd St., N. Y. 17

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INSECT POWDER GUNS (see Blowers)

INSECT REPELLENTS

Carbide & Carbon Chems. Corp., 30 E. 42nd St., N. Y. Fairfield Labs., Inc., 417 Cleveland Ave., Plainfield, N. J. Fuld Bros., Inc., 702 S. Wolfe St., Baltimore General Chem. Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. 6
Gunning & Gunning, Inc., 601 W. 26th St., N. Y. 1
Heckathorn & Co., Richmond, Calif.
Hercules Powder Co., 229 King St., Wilmington 99, Dela. Imperial Prods. Co., 1600 Fontain St., Phila. 21
Innis, Speiden & Co., 117 Liberty St., N. Y. 6
Kessler Chem. Co., 7272 State Rd., Phila.
Michigan Chem. Corp., St. Louis, Mich.
Puro Co., 2801 Locust St., St. Louis
Science Industries, 609-15 Geyer Ave., St. Louis
Skol Co., 250 E. 43rd St., N. Y.
St. Lawrence Chem. Co.. Ogdensburg, N. Y.
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
U. S. Industrial Chemicals, Inc., 60 E. 42nd St., N. Y.
Whitmire Res. Labs., 339 Vandeventer, St. Louis
G. H. Wood & Co., Toronto, Ont., Canada

INSECTICIDE BASE OILS (see Petroleum-Insecticide Base Oils)

INSECTICIDE CONCENTRATES, Synthetic (see also

Chipman Chem. Co., Bound Brook, N. J. American-British Chem. Supplies, 180 Madison Ave., American-British Chem. Supplies, 180 Madison Ave., N. Y. 16
Commercial Solvents Corp., 17 E. 42nd St., N. Y. 17
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del. Fairfield Labs., 417 Cleveland Ave., Plainfield, N. J. Eston Chems., Inc., 3100 E. 26th St., Los Angeles General Chem. Div., Allied Chemical & Dye Corp., 40
Rector St., N. Y. 6
Geigy & Co., 89 Barclay St., N. Y.
Heckathorn & Co., Richmond, Calif.
Hercules Powder Co., 929 King St., Wilmington, Del. Julius Hyman & Co., Denver, Colo.
Kay-Fries Chemicals, 180 Madison Ave., N. Y. 16
Kolker Chem. Wks., 80 Lister Ave., Newark, N. J.
Michigan Chemical Corp., St. Louis, Mich.
Penna. Salt Mfg. Co., Widener Bldg., Phila.
S. B. Penick & Co., 50 Church St., N. Y. 7
John Powell & Co., 1 Park Ave., N. Y.
R. J. Prentiss & Co., 110 William St., N. Y.
Rohm & Haas, Inc., 222 W. Washington Sq., Phila.
U. S. Industrial Chemicals, Inc., 60 E. 42nd St., N. Y.
Velsicol Corp., 330 E. Grand Ave., Chicago
Virginia-Carolina Chem. Corp., Richmond 8, Va.
Westvaco Chem. Div., Food Machy. & Chem. Corp., 405
Lexington Ave., N. Y.
Whitmire Research Corp., 339 E. Vandeventer, St. Louis

INSECTICIDE SPRAY PERFUMES (see Also Perfuming Materials)

Allondon, Inc., 912 Broadway, N. Y.

Aromatic Products, Inc., 15 E. 30th St., N. Y.
Berje Prods. Co., 616 W. 44th St., N. Y. 18
Bush Aromatics, 136 Liberty St., N. Y.
Centflor Mfg. Co., 243 W. 67th St., N. Y. 1
Antoine Chiris Co., Inc., 119 W. 57th St., N. Y.
Compagnie Parento, Inc., Croton-on-Hudson, N. Y.
Dodge & Olcott, Inc., 180 Varick St., N. Y.
P. R. Dreyer, Inc., 117½ W. 19th St., N. Y.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Felton Chemical Co., 603 Johnson Ave., N. Y. C.
Benj. French. Inc., 160 Fifth Ave., N. Y. C.
Fritzsche Bros., Inc., 76 Ninth Ave., N. Y.
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.
Gunning & Gunning, 601 W. 26th St., N. Y.
Heckathorn & Co., Richmond, Calif.

D. W. Hutchinson & Co., 162 Front St., N. Y. Samuel Klein, 4 Hanover Sq., N. Y. 4
E. M. Laning Co., 433 Stuyvesant Ave., Irvington, N. J. Geo. Lueders & Co., 427 Washington St., N. Y. C. Lautier Fils, Inc., 158 W. 18th St., N. Y. C. Magnus, Mabee & Reynard, Inc., 16 Desbrosses St N. Y.
Naugatuck Aromatics, 254 Fourth Ave., N. Y.
Naugatuck Aromatics Co., 5 Beekman St., N. Y.
Norda Essential Oil & Chem. Co., 601 W. 26th St., N. Y.
Orbis Products Corp., 215 Pearl St., N. Y.
S. B. Penick & Co., 50 Church St., N. Y. 7
Perry Bros., Inc., 220 Flushing Ave., Brooklyn
Schimmel & Co., 601 W. 26th St., N. Y.
Sparhawk Co., Sparkill, N. Y.
Synfleur Scientific Labs., Monticello, N. Y.
Syntomatic Corp., 114 E. 32nd St., N. Y.
Tombarel Prods. Corp., 12 E. 22nd St., N. Y.
van Ameringen-Haebler, Inc., 521 W. 57th St., N. Y. 19
Van Dyk & Co., Belleville, N. J.
Verona Chem. Co., 25 Verona Ave., Newark, N. J.

INSECTICIDE SPREADERS (see Agricultural Insecticide

INSECTICIDE TESTING (see Laboratories)

INSECTICIDES (see Household Insecticides, Agricultural

INSTRUMENTS, Meters, Gauges, Thermometers, Etc.

NSTRUMENTS, Meters, Gauges, Thermometers, Etc.

Bailey Meter Co., 1050 Ivanhoe Rd., Cleveland
Bausch & Lomb Optical Co., Rochester, N. Y.
S. F. Bowser & Co., Ft. Wayne, Ind.
Bristol Co., Waterbury, Conn.
Brown Instrument Co., Wayne & Windrim Sts., Phila.
Buffalo Meter Co., 2890 Main St., Buffalo, N. Y.
Cambridge Instrument Co., 3732 Grand Cent. Term.,
N. Y.
G. M. Davis Regulator Co., 2541 S. Washtenaw, Chicago
Eimer & Amend, 633 Greenwich St., N. Y.
Foxboro Co., Foxboro, Mass.
Liquidometer Corp., Long Island City, N. Y.
Pneumercator Co., Sperry Bldg., Brooklyn
Precision Thermometer Co., 1434 Brandywine St., Phila.
Read Machy. Co., York, Pa.
Republic Flow Meters Co., 2240 Diversey Blvd., Chicago
W. A. Taylor & Co., 7300 York Rd., Baltimore
Taylor Instrument Co., Rochester, N. Y.
U. S. Testing Co., 1415 Park Ave., Hoboken, N. J.

IONONE (Violet Base) (see Aromatic Chemicals)

ISO-PROPYL ALCOHOL (see Alcohol, Iso-Propyl)

JACKETED KETTLES (see Kettles)

JAPAN WAX (see Waxes)

JARS, GLASS (see Bottles)

JASMIN, ARTIFICIAL (see Aromatic Chemicals)

KAOLIN (see Clays)

KEROSENE (see Petroleum Insecticide Base Oils)

KETTLES

Allied Steel & Equipt. Co., Chester, N. J.
Alloy Prods. Corp., 221 Madison St., Waukesha, Wis.
Alsop Engineering Corp., 103 Green St., Milldale, Conn.
Aluminum Co. of America, Gulf Bldg., Pittsburgh
Bethlehem Foundry & Mach. Co., Grand Cent. Bldg., N.Y.
Consolidated Prods. Co., 15 Park Row, N. Y. (Used)
J. H. Day Co., 1444 Harrison Ave., Cincinnati
Edge Moor Iron Wks., 30 Rockefeller Plaza, N. Y.
Filter Paper Co., 2464 S. Michigan Ave., Chicago
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Houchin Machinery Co., Hawthorne, N. J.
Huber Machine Co., 259—46th St., Brooklyn



Testing & Research

IN THE CHEMICAL AND DRUG INDUSTRIES

The Department of Biology and Bacteriology of the United States Testing Company, Inc., in conjunction with the Esselen Research Division, offers a comprehensive professional service in testing, research, and consulting, to manufacturers of Chemicals, Pharmaceuticals, Detergents, Insecticides, Fungicides, Disinfectants, and Deodorants.

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- · Patch tests.
- Biophysical and bio assays of vitamins.
- Potency, stability of germicides, fungicides, insecticides, rodenticides, and pest-repellents.
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Littleford Bros., 443 E. Pearl St., Cincinnati
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KIESELGUHR (Infusorial Earth) (see Abrasives and

KITS (Wooden) (see Pails, Wooden)

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Alsop Engineering Corp., 103 Green St., Milldale, Conn.
Burt Machine Co., Baltimore, Md.
Chisholm-Ryder Co. of Pa., Hanover, Pa.
Consolidated Prods. Co., 15 Park Row, N. Y. (Used)
Economic Machinery Corp., Worcester, Mass.
Edward Ermold Co., 652-64 Hudson St., N. Y.
J. L. Ferguson Co., Joliet, Ill.
Filter Paper Co., 2464 S. Michigan Ave., Chicago
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Hornney & Co., 420 Lexington Ave., N. Y.
Mandel Products, 207 Astor St., Newark, N. J.
National Labeling Machine Co., 129 W. 19th St.,
Long Island City, N. Y.
Newman Tallow & Soap Mach. Co., 1051 W. 35th St.
Chicago (Used)
New Jersey Machine Corp., Hoboken, N. J.
Pneumatic Scale Corp., North Quincy, Mass.
Potdevin Machine Co., 1220A 38th St., Bklyn.
F. B. Redington Co., 112 S. Sangamon St., Chicago
Scientific Filter Co., 2 Franklin Square, N. Y. 10
Standard-Knapp Div., Portland, Conn.

LABELING MACHINES (Boxes & Cakes)

Allied Steel & Equipt. Co., Chester, N. J. Alsop Engineering Corp., 103 Green St., Milldale, Conn. Consolidated Prods. Co., 15 Park Row, N. Y. (Used) Newman Tallow & Soap Mach. Co., 1051 W. 35th St., Chicago (Used) New Jersey Machine Corp., Hoboken, N. J. Pneumatic Scale Corp., North Quincy, Mass. Potdevin Machine Co., 1220 38th St., Bklyn. Scientific Filter Co., 22 Franklin Square, N. Y. 10 Stokes & Smith Co., Summerdale, Phila., Pa.

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American Lithographic Co., 85 N. 3rd St., Brooklyn Dennison Mfg. Co., Framingham, Mass. Foxon Co., Providence, R. I. Henderson Lithographing Co., Norwood, Cincinnati R. J. Kittredge Co., 812 W. Superior St., Chicago. Label Craft Co., 508 W. Broadway, N. Y. Strobridge Lithographing Co., Cincinnati Strobridge Lithographing Co., Cincinnati U. S. Printing & Litho Co., Cincinnati, O.

LABORATORIES, TESTING

Applied Research Laboratories, Dayton, N. J. Columbus Labs., 33 N. State St., Chicago Curtis & Tompkins, Ltd., 236 Front St., San Francisco Dairy Laboratories, 2300 Locust St., Phila.
Elite Laboratories, 153 Center St., N. Y.
Entomological Testing Labs., 114 E. 32nd St., N. Y.
Hochstadter Laboratories, Inc., 122 Water St., N. Y.
Illinois Chemical Labs., Gridley, Ill.
James Laboratories, 189 W. Madison St., Chicago
La Wall & Harrison, 214 S. 12th St., Phila.
Lederer Bacterological Labs., 269 S. 19th St., Phila.
Harold A. Levey Laboratories, Oleander & Dublin Sts.,
New Orleans New Orleans New Orleans
J. W. McCutcheon, 475 Fifth Ave., N. Y.
Molnar Laboratories, 211 E. 19th St., N. Y.
Rosoff Laboratories, 60th & Osage, Phila.
Samuel P. Sadtler & Son, 210 S. 13th St., Phila.
Paul H. Scrutchfield, 1237 Church St., Hannibal, Mo.
Seil, Putt & Rusby, 16 E. 34th St., N. Y.
Skinner & Sherman, 246 Stuart St., Boston
Foster D. Snell, 29 W. 15th St., N. Y.
Stillwell & Gladding, 130 Cedar St., N. Y.
United States Testing Co., 1415 Park Ave., Hoboken,
N. J. Wisconsin Alumni Research Foundation, Madison, Wis.

LABORATORY ANIMALS

Albino Farms, Red Bank, N. J. Breeding & Lab. Inst., 619 Kent Ave., Brocklyn

LABORATORY APPARATUS AND EQUIPMENT

Cargille Scientific, Inc., 118 Liberty St., N. Y. 6 (chlorine and quaternary test kits)
Central Scientific Co.. 1700 W. Irving Pk., Chicago J. H. Day Co., Inc., Cincinnati 22 (roller mills)
Harry W. Dietert Co., 9330 Roselawn Ave., Detroit (device for determining moisture content)
Eastern Engineering Co., 45 Fox St., New Haven, Conn. Eimer & Amend, 633 Greenwich St., N. Y.
Fisher Scientific Co., Pittsburgh
Emil Greiner Co., 161—6th Ave., N. Y.
Laboratory Construction Co., 111 Holmes St.,
Kansas City, Mo.
J. M. Lehmann Co., Lyndhurst, N. J. (mills and plodders)
Mixing Equipment Co., 1067 Garson Ave., Rochester 9,
N. Y. (Mixers)
Pfaltz & Bauer, 350—5th Ave., N. Y.
Scientific Materials Co., Pittsburgh
Arthur H. Thomas Co., Wash. Sq., Phila.
U. S. Stoneware Co., Akron, O. (Ball mills)
U. S. Testing Co., 1415 Park Ave., Hoboken, N. J.)
Western Roy Alan Corp., 20830 S. Normandie, Torrance, Calif. (roller mills)
Will Corp., Rochester, N. Y.

LABORATORY CHEMICALS

J. T. Baker Chemical Co., Phillipsburg, N. J. J. T. Baker Chemical Co., Philipsburg, N. J.
E. I. du Pont de Nemours & Co., Wilmington
Fine Organics, Inc., 211 E. 19th St., N. Y. 3
General Chemical Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Mallinckrodt Chemical Works, 3600 N. 2nd St., St. Louis
Merck & Co., Rahway, N. J.

LANOLIN

American Lanolin Corp., Lawrence, Mass.
Bopf-Whittam Corp., Linden, N. J.
Botany Worsted Mills, Passaic, N. J.
Frank G. Fanning Co., 50 E. 42nd St., N. Y.
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.
Griffin Chem. Co., 1000 16th St., San Francisco
Hummel Chemical Co., 90 West St., N. Y.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Lanaetex Prods. Sales Corp., Elizabeth, N. J.
N. I. Malmstrom & Co., 147 Lombardy St., Brooklyn
Merck & Co., Rahway, N. J.
Pfaltz & Bauer, Inc., 350—5th Ave., N. Y.
Robinson-Wagner Co., 110 E. 42nd St., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Arthur C. Trask Co., 4103 S. LaSalle St., Chicago
Welch, Holme & Clark, 439 West St., N. Y.



Take a look at Armour's soap file

Armour has a complete line of quality soaps for every cleaning job in your institution!

Maintenance

Floors (concrete, tile).

Required: a heavy-duty synthetic or soap. Armour Recommends: Triumph Synthetic Detergent or Liquid Scrub Soap-a neutral potash saponified vegetable oil soap in convenient. ready-to-use liquid form.

Walls (Painted metal, wood, brick, concrete, plaster, marble, wood fiber board, terra cotta. stippled plaster, etc.)

Required: a neutral soft soap or synthetic. Armour Recommends: Lustro, a neutral paste Armour recommenus: Lustro, a neutrai paste soap with a vegetable base, also Regal, Triumph, or X. L. Synthetic Detergents.

Maintenance

(wood, cork linoleum, rubber, retrazzo, marble, asphalt, mastic or ceramic tile). Armour Recommends: Hospital Green Soap -- a Required: a neutral soap or synthetic. Armour Recommends: Hospital Green Soap—a neutral potash soft soap made from pure, vegetable oil stock or Regal Synthetic Detergent.

Required: a synthetic that will remove surface oil film without scratching of marring. Windows and Mirrors Armour Recommends: Regal Synthetic Armour Recommends: Regal Synthetic and alkyl-aryl sulfonate, an anionic surface-active anionic sulfonate, and anionic sulfonate, anionic sul alkyl-aryl sulfonate, an anionic surface-active and detergent properties with high wetting and detergent detergent with high wetting a liquid synthetic detergent etties, also Energetic, a liquid synthetic synthetic etties, also Energetic, a liquid synthetic synthetic. ries, and energene, a nquia synthetic deter or Triumph, a built non-ionic synthetic.

Kitchen

Dishes and glasses

Required: for best results, a quick-sudsing pure soap or neutral synthetic.

Armour Recommends: Regal Synthetic, Royal Flakes.

Pots and Pans

Required: fast-working synthetic detergent that leaves no greasy scum.

Armour Recommends: using X. L. Syntheric Detergent, a ready-built alkyl-aryl sulfonate which is free sinsing, leaving no soap film

Laundry

Required: a pure soap which produces quick Wools and Delicate Fabrics suds, rinses freely and easily at low temperatures

required for washing delicate fabrics.

Armour Recommends: Royal Flakes, neutral soap containing a minimum of 88% anhydrous soap, titer from 36-38°C.

Required: a soap with a medium or low titer, effective in safe, low temperatures. Armour Recommends: Hilo, a built soap, medium

titer, with high soap content.

Armour also Recommends:

• Formula No. 99, a liquid antiseptic soap for

- Dial Antiseptic Toilet Soap for personal use.
- Dial Antiseptic Louer Soap for personal use.
 Lighthouse Washing Powder, a heavy-duty powder, produced especially for general cleaning • Liquid Hand Soap for rest room dispensers.
- Armour glycerine for the Hospital Pharmacy

Laundry

Whitework (sheets, towels, linens, etc.) Required: a quickly penetrating, high-titer soap which stays active even under high whitework temperature.

Armour Recommends: Flint, a neutral soap containing a minimum of 88% anhydrous soap, titer of 41-42°. Where a ready-built soap is preferred, use Giant Powder - a built product with high soap content and a 41-42° titer.

ARMOUR

Industrial Soap Division

· Chicago 9, Illinois Armour and Company . 1355 West 31st St.

LAUNDRY BLEACH (Sodium Hypochlorite)

American Soap & Washoline Co., Cohoes, N. Y.
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Chrisman Supply Co., Fayetteville, N. Y.
Cowles Chemical Co., 7016 Euclid Ave., Cleveland
Delta Chemical Mfg. Co., 2101 Washington Blvd.,
Baltimore
Gaylord Cnem. Co., 701 Woodswether Rd., Kansas City
Higley Chemical Co., Dubuque, Iowa
Hysan Products Co., 932 W. 38th Place, Chicago
Imperial Prods. Co., 1600 Fontain St., Phila.
H. Kohnstamm & Co., 91 Park Pl., N. Y.
Legrand Bleach Corp., 111—49th St., Brooklyn
Lorenz Chem. Co., 135 No. 32nd Ave., Omaha
Mathieson Chemical Corp., 10 Light St., Balto. 18
Monsanto Chemical Corp., 10 Light St., Balto. 18
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Penna. Salt Mfg. Co., 1000 Widener Bldg., Phila.
Pittsburgh Plate Glass Co., Columbia Chemical Div.
5th & Bellefield, Pittsburgh 13
Rosenthal Bercow, 25 E. 26th St., N. Y. 10
Science Industries, 609-15 Geyer Ave., St. Louis
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
Surpass Chemical Co., Albany, N. Y.
Thompson-Hayward Chemical Co., Kansas City, Mo.
Jos. Turner & Co., Ridgefield, N. J.
Westvaco Chem. Div., Food Machy. & Chem. Corp., 405
Lexington Ave., N. Y.
Washine-National-Sands, Inc., 37-02 Northern Blvd.,
Long Island City

LAUNDRY BLUING

Calco Chemical Division, Bound Brook, N. J.
Cowles Chemical Co., 7016 Euclid Ave., Cleveland
E. F. Drew Co., 15 E. 26th St., N. Y. 10
Fezandie & Sperrle, 205 Fulton St., N. Y.
Interstate Color Co., 5 Beekman St., N. Y.
H. Kohnstamm & Co., 91 Park Pl., N. Y.
National Aniline Div., Allied Chem. & Dye Corp.,
40 Rector St., N. Y.
Penna. Salt Mfg. Co., 1000 Widener Bldg., Phila.
Pylam Products Co., 799 Greenwich St., N. Y.
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
Washine-National-Sands, Inc., 37-02 Northern Blvd.,
Long Island City
Welch, Holme & Clark Co., 439 West St., N. Y.

LAUNDRY SOAP, CAKE

American Soap & Washoline Co., Cohoes, N. Y.
Armour Soap Wks., 1355 W. 31st St., Chicago
Beach Soap Co., Lawrence, Mass.
Chicago Sanitary Prods. Co., 3100 S. Throop St.,
Chicago 8
Colgate-Palmolive-Peet Co., Jersey City, N. J.
Cudahy Packing Co., 221 N. La Salle St., Chicago
E. F. Drew Co., 15 E. 26th St., N. Y. 10
Du Bois Soap Co., Cincinnati, O.
J. Eavenson & Sons, Del. & Penn Sts., Camden, N. J.
Fels & Co., Philadelphia
Hewitt Soap Co., Dayton, O.
Kamen Soap Prods. Co., 233 Bway., N. Y.
Lightfoot Schultz Co., 1412 Park Ave., Hoboken, N. J.
Long Island Soap Co., Meeker Ave., & Bridgewater St.,
Brooklyn
Los Angeles Soap Co., Los Angeles, Calif.
Manhattan Soap Co., Bristol, Pa.
National Soap Co., 357 S. 25th St., Tacoma, Wash.
Newell Gutradt Co., 350 Fremont St., San Francisco, Cal.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Procter & Gamble Co., Cincinnati
North Coast Chem. & Soap Wks., Seattle, Wash.
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Union Stock Yards, Chicago
Tennessee Soap Co., 1702 N. Thomas Ave., Memphis,
Tenn.
Vliet Soap Co., 638 Monroe St., Brooklyn, N. Y.
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Miss.
M. Werk Co., St. Bernard, Cincinnati

Allen B. Wrisley Co., 6801 W. 65th St., Chicago, Ill. Chas. W. Young & Co., 1247 N. 26th St., Phila.

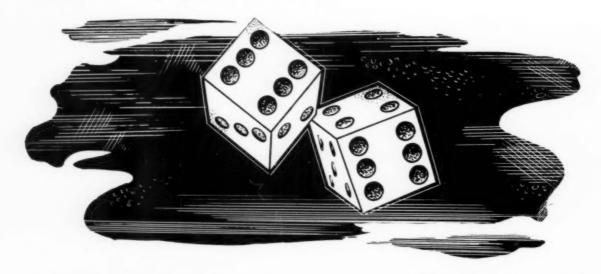
LAUNDRY SOAP, CHIP

American Soap & Washoline Co., Cohoes, N. Y.
Armour Soap Wks., 1355 W. 31st St., Chicago
Beach Soap Co., Lawrence, Mass.
Chem. Mfg. & Dist. Co., Easton, Pa.
Chicago Sanitary Prods. Co., 3100 S. Throop St.,
Chicago 8
Colgate-Palmolive-Peet Co., Jersey City, N. J.
E. F. Drew Co., 15 E. 26th St., N. Y. 10
Du Bois Soap Co., Cincinnati, O.
J. Eavenson & Sons, Del. & Penn Sts., Camden, N. J.
Harris Soap Co., Buffalo, N. Y.
Hewitt Soap Co., Buffalo, N. Y.
Hewitt Soap Co., Dayton, Ohio
Hockwald Chem Co., 135 Mississippi St., San Francisco
Kamen Soap Prods Co., 233 Broadway, N. Y. 7
Lightfoot Schultz Co., 1412 Park Ave., Hoboken, N. J.
Long Island Soap Co., Meeker Ave. & Bridgewater St.,
Brooklyn
Los Angeles Soap Co., Los Angeles, Calif.
Nat'l Milling & Chem. Co., 4601 Nixon St., Phila. 27
National Soap Co., 357 South 25th St., Tacoma, Wash.
North Coast Soap & Chem. Wks., Seattle, Wash.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Procter & Gamble Co., Cincinnati
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Union Stock Yards, Chicago
Tennessee Soap Co., 1702 N. Thomas Ave., Memphis,
Tenn.
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.
M. Werk Co., St. Bernard, Cincinnati
Allen B. Wrisley Co., 6801 W. 65th St., Chicago, Ill.
Chas. W. Young & Co., 1247 N. 26th St., Phila.

LAUNDRY SOAP, POWD. AND GRAN.

American Soap Powder Wks., 100 Van Dyke St.,
Brooklyn, N. Y.
American Soap & Washoline Co., Cohoes, N. Y.
Armour Soap Wks., 1355 W. 31st St., Chicago
Baums Castorine Co., 200 Mathew St., Rome, N. Y.
Beach Soap Co., Lawrence, Mass.
Chemical Mfg. & Dist. Co., Easton, Pa.
Chicago Sanitary Prods., 3100 S. Throop St.,
Chicago 8
Colgate-Palmolive-Peet Co., Jersey City, N. J.
Cudahy Packing Co., 221 N. La Salle St., Chicago
E. F. Drew Co., 15 E. 26th St., N. Y. 10
Du Bois Soap Co., Cincinnati, O.
Eagle Soap Corp., Huntington, Ind.
J. Eavenson & Sons, Del. & Penn Sts., Camden, N. J.
Essential Chem. Co., 744 N. 4th St., Milwaukee 3
General Biochemicals, Inc., Chagrin Falls, Ohio
Hewitt Soap Co., Dayton, Ohio
Hockwald Chem. Co., 135 Mississisppi St., San Francisco
Kamen Soap Products Co., 233 Broadway, N. Y. 7
Los Angeles Soap Co., Los Angeles, Calif.
Miranol Chemical Co., 16 Melville Pl., Irvington, N. J.
Murro Chemical Co., 16 Melville Pl., Irvington, N. J.
National Milling & Chem. Co., 4601 Nixon St., Phila. 27
Nopco Chem. Co., Harrison, N. J.
National Soap Co., 357 South 25th St., Tacoma, Wash.
North Coast Soap & Chem. Wks., Seattle, Wash.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Port Huron Detergent Co., Port Huron, Mich.
Procter & Gamble Co., Cincinnati
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
John Stanley Co., 642 W. 30th St., N. Y.
Stevens Soap Corp., 202 Sullivan St., Brooklyn
Swift & Co., Union Stock Yards, Chicago
Tennessee Soap Co., 1702 N. Thomas Ave., Memphis 1,
Tenn.
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.
W. Werk Co., St. Bernard, Cincinnati
Allen B. Wrisley Co., 6801 W. 65th St., Chicago, Ill.
Chas. W. Young & Co., 1247 N. 26th St., Phila.

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American Fluoride Corp., 151 W. 19th St., N. Y.
Blockson Chemical Co., Joliet, Ill.
Chemical Mfg. & Dist. Co., Easton, Pa.
Croton Chem. Corp., 114 Liberty St., N. Y.
E. F. Drew Co., 15 E. 26th St., N. Y. 10
General Chem. Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland Hummel Chem. Co., 90 West St., N. Y.
Innis, Speiden & Co., 117 Liberty St., N. Y.
H. Kohnstamm & Co., 91 Park Pl., N. Y.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Penna. Salt Mfg. Co., 1000 Widener Bldg., Phila.
Port Huron Detergent Co., Port Huron, Mich.
G. S. Robins, 126 Chouteau Ave., St. Louis 2
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Standard Chem. Co., Columbus, O.
John T. Stanley Co., 642 W. 30th St., N. Y. C.
Henry Sundheimer, Inc., 103 Park Ave., N. Y.
Thompson-Hayward Chemical Co., Kansas City, Mo.
Victor Chemical Wks., 141 W. Jackson Blvd., Chicago Welch, Holme & Clark Co., 439 West St., N. Y.
Wyandotte Chem. Corp., Wyandotte, Mich.
Chas. W. Young & Co., 1247 N. 26th St., Phila.

LAVENDER OIL (see Essential Oils)

LAURIC ACID (see also Fatty Acids)

Armour Chem. Div., Armour & Co., 1355 W. 31st St., Chicago
Archer-Daniels-Midland Co., Minneapolis 2
John H. Calo Co., 19 Rector St., N. Y. 6
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
El Dorado Oil Wks., 311 California St., San Francisco General Mills, Chem. Div., 400 S. 2nd Ave., Minneapolis 1
A. Gross & Co., 295 Madison Ave., N. Y. 17
W. C. Hardesty Co., 41 E. 42nd St., N. Y.
Robinson Wagner Co., 110 E. 42nd St., N. Y.
Arthur C. Trask Co., 4103 S. LaSalle St., Chicago 9
Welch, Holme & Clark Co., 439 West St., N. Y. 14
Werner G. Smith Co., 2191 W. 110th St., Cleveland 2
Woburn Chemical Corp., Harrison, N. J.

LAURYL ALCOHOL

E. I. du Pont de Nemours & Co., Wilmington, Del. Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y. C. M. Michel & Co., 95 Broad St., N. Y. F. Ritter & Co., 4641 Hollywood Blvd., Los Angeles 27 Robinson Wagner Co., 110 E. 42nd St., N. Y. Werner G. Smith Co., 2191 W. 110th St., Cleveland 2

LEAD ARSENATE

Amer. Agricultural Chem. Co., 50 Church St., N. Y.
American Cyanamid & Chem. Co., 30 Rockefeller Plaza,
N. Y.
California Spray-Chemical Corp., Lucas & Ortho Way,
Richmond, Calif.
Chipman Chem. Co., Bound Brook, N. J.
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours, & Co., Inc., Wilmington, Del.
General Chemical Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
Heckathorn & Co., Richmond, Cali
Rosenthal Bercow Co., 25 E. 26th S., N. Y.
Sherwin-Williams Co., Cleveland,).

LECITHIN

American Lecithin Corp., Corona Ave., Elmhurst, L. I. Archer-Daniels-Midland Co., Minneapolis 2 Chemical Novelties Corp., 946 W. 5th St., Cincinnati W. A. Cleary Corp., New Brunswick, N. J. Digestive Ferments Co., 930 Henry St., Detroit Enco Co., 441 Lexington Ave., N. Y. R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.

Merck & Co., Rahway, N. J.
Ross & Rowe, Inc., 50 Broadway, N. Y.
Robinson Wagner Co., 110 E. 42nd St., N. Y.
Soya Corp. of America, 36 Rockefeller Plaza, N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y.
Wilson Labs., 4221 S. Western Blvd., Chicago

LEMON OIL, LEMONGRASS OIL (see Essential Oils)

LIME (Live and Hydrated)

Aluminum Co. of America, Gulf Bldg., Pittsburgh California Spray-Chemical Corp., Lucas & Ortho Way, Ricamond, Calif.

John H. Calo Co., 19 Rector St., N. Y. 6
Chas. B. Chrystal Co., 53 Park Pl., N. Y. 7
Low Chemical Co., Midland, Mich.
E. I. du Pont de Nemours, & Co., Inc., Wilmington, Del. Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Hoosac Valley Lime Co., Adams, Mass.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Lehigh Lime Co., 111 W. Washington St., Chicago
National Gypsum Co., 192 Delaware Ave., Buffalo, N. Y.
Penna. Salt Mfg. Co., Widener Bldg., Phila. 7
Rockland-Rockport Lime Co., Rockland, Maine
Thompson-Hayward Chem. Co., Kansas City 8, Mo.
U. S. Lime Prods. Corp., 85 Second St., San Francisco
Whiterock Quarries, Inc., Bellefonte, Pa.
Whittaker, Clark & Daniels, Inc., 260 Bway., N. Y.
Witco Chemical Co., 295 Madison Ave., N. Y.

LIME SULFUR

Allen Co., Pittstown, N. J.
California Spray-Chemical Corp., Lucas & Ortho Way, Richmond, Calif.
Chipman Chemical Co., Bound Brook, N. J.
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
General Chemical Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
Heckathorn & Co., Richmond, Calif.
Taylor Chem. Wks., Aberdeen, N. C.

LINALOE OIL (see Essential Oils)

LINALOOL (see Aromatic Chemicals)

LINALYL ACETATE (see Aromatic Chemicals)

LINERS (see Bag Liners)

LINING MACHINERY (Cartons)

R. A. Jones & Co., Covington, Ky.
Newman Tallow & Soap Mach. Co., 1051 W. 35th St., Chicago
Pneumatic Scale Corp., North Quincy, Mass.
F. B. Redington Co., 112 S. Sangamon St., Chicago

LINSEED OIL

(see also Brokers and Dealers)

Archer-Daniels-Midland Corp., Minneapolis, Minn.
John H. Calo Co., 19 Rector St., N. Y. 6
Falk & Co., Pittsburgh
William O. Goodrich Co., Milwaukee, Wis.
Spencer Kellogg & Sons, Buffalo, N. Y.
Kelloggs & Miller, Amsterdam, N. Y.
Minnesota Linseed Oil Co., Minneapolis, Minn.
Pacific Vegetable Oil Corp., 62 Townsend St.,
San Francisco
J. H. Redding, Inc., 17 Battery Place, N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y.

LINSEED OIL SOAP (see Potash Soaps)

LIQUID SOAP AND BASE (see Potash Soaps)

MACHINERY, USED (see Used Machinery)

MAGNESIUM CARBONATE

Chas B. Chrystal Co., 53 Park Pl., N. Y. 7
Dow Chemical Co., Midland, Mich.
Michigan Chemical Corp., St. Louis, Mich.
Merck & Co., Rahway, N. J.
Westvaco Chem. Div., Food Machy. & Chem. Corp., 415
Lexington Ave., N. Y. 17
Whittaker, Clark & Daniels, 260 W. Broadway, N. Y. 13

MAGNESIUM OXIDE (Magnesia)

American Cyanamid & Chemical Corp., 30 Rockefeller Plaza, N. Y. J. T. Baker Chem. Co., Phillipsburg, N. J. Chas. B. Chrystal Co., 53 Park Pl., N. Y. 7 Diamond Alkali Co., 300 Union Commerce St., Cleveland 14 Cleveland 14
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Heckathorn & Co., Richmond, Calif.
Innis, Speiden & Co., 171 Liberty St., N. Y. 6
Merck & Co., Rahway, N. J.
Mallinckrodt Chemical Wks., 2nd & Mallinckrodt Sts.,
St. Louis 7 St. Louis 7 St. Louis 7

Michigan Chem. Corp., St. Louis, Mich.

Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10

E. E. Schundler & Co., Joliet, Ill.

Chas. A. Wagner Co., 813 Callowhill St., Phila.

Welch, Holme & Clark Co., 439 West St., N. Y.

Westvaco Chem. Div., Food Machy. & Chem. Corp., 405

Lexington Ave., N. Y.

Whittaker, Clark & Daniels, Inc., 260 W. Bway., N. Y. 13

Witco Chemical Co., 295 Madison Ave., N. Y.

MAGNESIUM STEARATE (see Stearates)

MAHOGANY SULFONATES (see Naphthenic Acids)

MAHOGANY SOAP (This term also used to designate Petroleum Sulfonates. See also Naphthenic Acids, Naphthalene Sulfonates.)

Armour Soap Wks., 1355 W. 31st St., Chicago Colgate-Palmolive-Peet Co., Jersey City, N. J. E. F. Drew & Co., 152 E. 26th St., N. Y. 10 Elgo Trading Corp., 220 Broadway, N. Y. 7 Emery Industries, 4300 Carew Tower, Cincinnati W. C. Hardesty Co., 41 E. 42nd St., N. Y. Los Angeles Soap Co., Los Angeles, Calif. Oil States Pet. Co., 233 Broadway, N. Y. Oronite Chemical Co., 38 Sansome St., San Francisco Pennotex Oil Corp., 29 Broadway, N. Y. 6 John T. Stanley Co., 642 W. 30th St., N. Y.

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MARINE SOAPS (see Salt Water Soaps)

MATS (Corrugated, Perforated, Link)

Perfo Mat & Rubber Co., 281 Fifth Ave., N. Y. 16 U. S. Rubber Co., 1230 Ave. of Americas, N. Y.

MECHANIC'S HAND PASTE (see Hand Soap)

MEDICINAL SOAPS, CAKE

Armour Soap Wks., 1355 W. 31st St., Chicago J. Eavenson & Sons., Del. & Penn Sts., Camden, N. J. Hewitt Soap Co., Dayton, O.

Los Angeles Soap Co., Los Angeles, Calif. Newell Gutradt Co., 350 Fremont St., San Francisco, Cal. Procter & Gamble Co., Cincinnati Rare Chemicals, Inc., First & Essex Sts., Harrison, N. J. Schmidt Soap Products Co., 236 W. North Ave., Chicago John T. Stanley Co., 642 W. 30th St., N. Y. Allen B. Wrisley Co., 6801 W. 65th St., Chicago

MEDICINAL SOAPS, LIQUID (see Potash Soaps)

MENTHOL

(see also Essential Oils)

Aroscent, Inc., Main & Chestnut Sts., Dobbs Ferry, N. Y. Bendix Chem. Corp., 420 Lexington Ave., N. Y. S. W. Bridges & Co., 82 Wall St., N. Y. Centflor Mfg. Co., 243 W. 67th St., N. Y. 1 Consumers Import Co, 350 Fifth Ave., N. Y. Dodge & Olcott, Inc., 180 Varick St., N. Y. P. R. Dreyer, 117½ W. 19th St., N. Y. Enco Chem. Corp., 441 Lexington Ave., N. Y. Fritzsche Bros., Inc., 76 Ninth Ave., N. Y. Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y. Samuel Klein, 4 Hanover Sq., N. Y. 4 Magnus, Mabee & Reynard, Inc., 16 Desbrosses St., N. Y. A. Maschmeijer, Jr., Inc., 45 W. 16th St., N. Y. Norda Essential Oil & Chem Co., 601 W. 26th St., N. Y. Orbis Products Corp., 215 Pearl St., N. Y. S. B. Penick & Co., 50 Church St., N. Y. S. B. Penick & Co., 50 Church St., N. Y. F. Ritter & Co., 4001 Goodwin Ave., Los Angeles 39 Rosenthal Bercow Co., 25 E. 26th St., N. Y. Schimmel & Co., 601 W. 26th St., N. Y. Schimmel & Co., 601 W. 26th St., N. Y. Schimmel & Co., 601 W. 26th St., N. Y. Schimmel & Co., 601 W. 26th St., N. Y. Schimmel & Co., 601 W. 26th St., N. Y. Schimmel & Co., 601 W. 26th St., N. Y. Schimmel & Co., 601 W. 26th St., N. Y. Schimmel & Co., 601 W. 26th St., N. Y. Schimmel & Co., 601 W. 26th St., N. Y. Schimmel & Co., 601 W. 26th St., N. Y. Schimmel & Co., 601 W. 26th St., N. Y. Schimmel & Co., 601 W. 26th St., N. Y. Schimmel & Co., 601 W. 26th St., N. Y. Schimmel & Co., 601 W. 26th St., N. Y. Schimmel & Co., 601 W. 26th St., N. Y.

MERCURY BICHLORIDE (Corrosive Sublimate)

J. T. Baker Chem. Co., Phillipsburg, N. J. F. W. Berk & Co., 420 Lexington Ave., N. Y. General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.

Heyden Chemical Corp., 393 7th Ave., N. Y.

Mallinckrodt Chemical Works, St. Louis

Merck & Co., Rahway, N. J.

Metalsalts Corp., 200 Wagarow Rd., Hawthorne, N. J.

New York Quinine & Chem. Wks., N. 11th & Berry Sts.,

Brooklyn Brooklyn Chas. Pfizer & Co., 81 Maiden Lane, N. Y. Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10

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METAL POLISH (see Polish)

METALLIC SOAPS (see Stearates)

METERS (see Instruments)

METHANOL (Synthetic)

Carbide & Carbon Chem. Corp., 30 E. 42nd St., N. Y. Commercial Solvents Corp., 17 E. 42nd St., N. Y. E. I. du Pont de Nemours & Co., Wilmington, Del. Merck & Co., Rahway, N. J. Solvay Sales Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.

METHYL ANTHRANILATE

(see also Aromatic Chemicals)

Aromatic Products, Inc., 15 E. 30th St., N. Y. Dow Chemical Co., Midland, Mich. E. I. du Pont de Nemours & Co., Wilmington, Del. Fritzsche Bros., 76 9th Ave, N. Y. 11 Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y. Florasynth Labs., Olmstead & Starling Aves., N. Y. A. Maschmeijer, Jr., Inc., 45 W. 16th St., N. Y. Polak's Frutal Wks., 36-14 35th St., L. I. C. 6, N. Y. Ungerer & Co., 161 Ave. of Americas, N. Y. 13

METHYL BROMIDE

Dow Chemical Co., Midland, Mich. Eston Chemicals, Inc., 3100 E. 26th St., Los Angeles Michigan Chem. Co., St. Louis, Mich. Westvaco Chem. Div., Food Machy. & Chem. Corp., 405 Lexington Ave., N. Y.

METHYL CELLULOSE

Dow Chemical Co., Midland, Mich. General Dyestuff Corp., 435 Hudson St., N. Y. Hercules Powder Co., 929 King St., Wilmington, Del.

METHYL SALICYLATE (Artificial Wintergreen)

(see also Aromatic Chemicals)

J. T. Baker Chem. Co., Phillipsburg, N. J.
Dow Chemical Co., Midland, Mich.
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.
Heyden Chemical Corp., 393 7th Ave., N. Y.
Merck & Co., Rahway, N. J.
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis

MILLS, SOAP POWDER (see Soap Machinery & Grinding Machinery)

MINERAL OIL, WHITE (see White Mineral Oil)

MINERAL SOAP (see Petrolatum)

MIRBANE OIL (Nitrobenzene)

(see also Essential Oils)

Calco Chemical Co., Bound Brook, N. J.
E. I. du Pont de Nemours & Co., Inc., Wilmington, Del. Fritzsche Bros., 76 9th Ave., N. Y. 11
Innis, Speiden & Co., 117 Liberty St., N. Y. 6
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis
National Aniline Div., Allied Chem. & Dye Corp.,
40 Rector St., N. Y.
Naugatuck Aromatics, Inc., 254 Fourth Ave., N. Y.
Schimmel & Co., 601 W. 26th St., N. Y. 1
Ungerer & Co., 161 Ave. of Americas, N. Y. 13

MIXERS (Portable)

Allied Steel & Equipment Co., Chester, N. J.
Alsop Engineering Corp., 103 Green St., Milldale, Conn.
Consolidated Products Co., 15 Park Row, N. Y. (Used)
Eastern Industries, Inc., 296 Elm St., New Haven 6,
Conn.
Filter Paper Co., 2464 S. Michigan Ave., Chicago
First Machy. Corp., 157 Hudson St., N. Y. (Used)
F. R. Hormann & Co., 186 Joralemon St., Bklyn, 2
Houchin Machinery Co., Hawthorne, N. J.
Industrial Process Engineers, 8 Lister Ave., Newark 5,
N. J.
Mixing Equipment Co., Inc., 1067 Garson Ave.,
Rochester, N. Y.
Newman Tallow & Soap Mach. Co., 1051 W. 35th St.,
Chicago (Used)
Patterson Fdy. & Mch. Co., E. Liverpool, O.
Pfaudler Co., 89 East Ave., Rochester, N. Y.

H. K. Porter Co., 49th & Harrison Sts., Pittsburgh Rapid Machy Co., Marion, Ia. Read Machy. Co., York, Pa. Geo. G. Rodgers Co., 225 W. 34th St., N. Y. U. S. Stoneware Co., Akron 9, O.

MIXING MACHINERY (Change Can Mixers)

Abbe Engineering Co., 50 Church St., N. Y.
Alied Steel & Equipment Co., Chester, N. J.
Alsop Engineering Corp., Milldale, Conn.
Amer. Mach. & Foundry Co., 511 5th Ave., N. Y.
Arthur Colton Co., Detroit, Mich.
Consolidated Products Co., 15 Park Row, N. Y. (Used)
J. H. Day Co., 1144 Harrison Ave., Cincinnati
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Houchin Machy. Co., Hawthorne, N. J.
Kent Machine Works, 39 Gold St., Brooklyn
Mixing Equipment Co., Inc., 1067 Garson Ave.,
Rochester, N. Y.
Newman Tallow & Soap Mach., 1051 W. 35th St.,
Chicago (Used)
H. K. Porter Co., 49th & Harrison Sts., Pittsburgh
Rapid Machy. Co., Warion, O.
Read Machy. Co., Warion, O.
Read Machy. Co., York, Pa.
Chas. Ross & Son Co., 150 Classon Ave., Brooklyn
Troy Engine & Machine Co., Troy, Pa.
U. S. Stoneware Co., Akron 9, O.
Waterville Fndry. & Machine Co., Waterville, N. Y.

MIXING MACHINERY (Dry Products)

Abbe Engineering Co., 50 Church St., N. Y.
Allied Steel & Equipment Co., Chester, N. J.
Alsop Engineering Corp., Milldale, Conn.
Amer. Mach. & Foundry Co., 511 5th Ave., N. Y.
Atlas Steel Construction Co., Irvington, N. Y.
Brower Mfg. Co., 411 N. 3rd St., Quincy, Ill.
Consolidated Products Co., 15 Park Row, N. Y. (Used)
J. H. Day Co., 1144 Harrison Ave., Cincinnati
First Machy. Corp., 157 Hudson St., N. Y. (Used)
B. F. Gump Co., 1325 S. Cicero Ave., Chicago
Houchin Machinery Co., Hawthorne, N. J.
Huber Machine Co., 259—46th St., Brooklyn
Industrial Process Engineers, 8 Lister Ave., Newark 5
Lancaster Iron Works, Lancaster, Pa.
Newman Tallow & Soap Mach. Co., 1051 W. 35th St.,
Chicago (Used)
H. K. Porter Co., 49th & Harrison Sts., Pittsburgh
Prater Pulverizer Co., 1829 S. 55th Ave., Chicago
Rapid Machy. Co., Marion, Ia.
Raymond Pulverizer Div., 1314 N. Branch St., Chicago 22
Read Machy. Co., York, Pa.
Robinson Mfg. Co., Muncy, Pa.
Geo. G. Rodgers Co., 225 W. 34th St., N. Y.
Chas. Ross & Son Co., 150 Classon Ave., Brooklyn
Scottdel, Inc., Swanton, Ohio
Sprout Waldron & Co., Muncy, Pa.
Stephens-Adamson Mfg. Co., Aurora, Ill.
F. J. Stokes Machine Co., Philadelphia, Pa.
Struthers-Wells Corp., Warren, Pa.
Sturtevant Mill Co., Dorchester, Boston 22, Mass.
Aurelio Tanzi Engineering Co., 430 Jefferson St., Bklyn.
U. S. Stoneware Co., Akron 9, O.

MIXING MACHINERY (General)

Allied Steel & Equipment Co., Chester, N. J.
Alsop Engineering Corp., Milldale, Conn.
Amer. Mach. & Foundy Co., 511 5th Ave., N. Y.
Baker-Perkins Co., Saginaw, Mich.
Brower Mfg. Co., 411 N. 3rd St., Quincy, Ill.
Arthur Colton Co., Detroit
Consolidated Prods. Co., 15 Park Row, N. Y. (Used)
J. H. Day Co., 1144 Harrison Ave., Cincinnati
Eastern Industries, Inc., 296 Elm St., New Haven, Conn.

MIXING MACHINERY (General) (Contd.)

Edge Moor Iron Wks., Edge Moor, Del.
Eppenbach, Inc., 45-1C Vernor Blvd., L. I. C., N. Y.
Filter Paper Co., 2464 S. Micnigan Ave., Chicago
First Machy. Corp., 157 Hudson St., N. Y. (Used)
G.M.T. Colloid Mill Corp., 30 Church St., N. Y. 7
B. F. Gump Co., 431 S. Clinton St., Chicago
Houchin Macninery Co., Hawthorne, N. J.
Huber Machine Co., 259—46th St., Brooklyn
Industrial Process Engineers, 8 Lister Ave., Newark 5
Kent Machine Works, 37 Gold St., Brooklyn
Lancaster Iron Works, Lancaster, Pa.
J. M. Lehmann Co., Lyndhurst, N. J.
Littleford Bros., 443 E. Pearl St., Cincinnati
Mixing Equipment Co., 1067 Garson Ave.,
Rochester, N. Y.
Newman Tallow & Soap Mach. Co., 1051 W. 35th St.,
Chicago (Used)
Pfaudler Co., 89 East St., Rochester, N. Y. Chicago (Used)
Pfaudler Co., 89 East St., Rochester, N. Y.
H. K. Porter Co., 49th & Harrison Sts., Pittsburgh
Prater Pulverizer Co., 1829 S. 55th Ave., Chicago
Rapid Machy. Co., Marion, Ia.
Read Machinery Co., York, Pa.
Chas. Ross & Son Co., 150 Classon Ave., Brooklyn
Raymond Pulverizer Div., 1314 N. Branch St., Chicago 22
Scottdel, Inc., Swanton, Ohio
Sowers Mfg. Co., 1296 Niagara St., Buffalo, N. Y.
Sprout Waldron & Co., Muncy, Pa.
Stephens-Adamson Mfg. Co., Aurora, Ill.
F. J. Stokes Mach. Co., Philadelphia, Pa.
Sturters-Wells Co., Warren, Pa.
Sturtevant Mill Co., Dorchester, Boston 22, Mass.
Turbo Mixer Corp., 247 Park Ave., N. Y.
U. S. Stoneware Co., Akron 9, O.
Waterville Foundry & Machine Co., Waterville, N. Y.

MOP HANDLES

Amer. Standard Mfg. Co., 2509 S. Green St., Chicago Clarke Sanding Machine Co., Muskegon, Mich. Stanley H. Coffin, 12 Pearl St., Boston Eagle Woodenware Mfg. Co., Hamilton, O. Economy Mop Wringer Co., 1944 W. 21st St., Chicago Erie Mop & Wringer Co., East Rochester, N. Y. Howard Dustless Duster Co., Boston W. E. Kautenberg Co., Freeport, Ill. Marvel Mop Division, Zelinkoff Co., Kans. Massasoit Mfg. Co., 72 Park Pl., N. Y. Rex-Cleanwall Corp., Brazil, Ind. Rubon Wood Finishing & Prods. Co., 500 W. 7th St., Kansas City, Mo. Silver-Chamberlin Co., Clayton, N. Y. White Mop Wringer Co., Fultonville, N. Y.

MOP WRINGERS AND PAILS

Howard J. Barrett, 1908 Walnut St., Phila. Clarke Sanding Mach. Co., Muskegon, Mich. Stanley H. Coffin, 12 Pearl St., Boston Stanley H. Coffin, 12 Pearl St., Boston
Colson Mfg. Co., Elyria, O.
Dobbins Mfg. Co., Elkhart, Ind.
Eagle Woodenware Mfg. Co., Hamilton, Ohio
Economy Mop Wringer Co., 1944 W. 21st St., Chicago
Geerpres Wringer, Inc., Muskegon, Mich.
Geuder, Paeschke & Frey, Milwaukee, Wis.
Hockwald Chem. Co., 135 Mississippi St., San Francisco
Illinois Duster Co., 1944 Webster Ave., Chicago
S. C. Lawlor Co., 122 N. Aberdeen St., Chicago
Muskegon Sanitary Supply Co., Muskegon Heights, Mich.
Palmer Fixture Co., Waukesha, Wisc.
Sweet Mop Co., 1913 Fremont Ave., South Pasadena, Cal.
U. S. Steel Prods. Co., 30 Rockefeller Plaza, N. Y. 20
White Mop Wringer Co., Fultonville, N. Y.

MOPPING TANKS AND TRUCKS

Howard J. Barrett, 1908 Walnut St., Phila. Clarke Sanding Mach. Co., Muskegon, Mich.
Eagle Woodenware Mfg. Co., Hamilton, O.
Economy Mop Wringer Co., 1944 W. 21st St., Chicago
Geerpres Wringer, Inc., Muskegon, Mich.
Hockwald Chem. Co., 135 Mississippi St., San Francisco S. C. Lawlor Co., 122 N. Aberdeen St., Chicago Palmer Fixture Co., Waukesha, Wisc. White Mop Wringer Co., Fultonville, N. Y.

MOPS

Alabama Broom & Mattress Co., Huntsville, Ala. Amer. Standard Mfg. Co., 2509 S. Green St., Chicago Amer. Textile Prods. Co., 5606 Euclid Ave., Cleveland Burdett-Rose Mfg. Co., 6100 Independence Rd., Kansas Amer. Textile Prods. Co., 5000 Euchd Ave., Cleveland Burdett-Rose Mfg. Co., 6100 Independence Rd., Kansas City, Mo.
California Cotton Mills Co., Oakland, Calif.
Chattanooga Broom & Mop Co., Chattanooga, Tenn.
Clark Bros. Mfg. Co., 34 N. Front St., Phila.
Clarke Sanding Mach. Co., Muskegon, Mich.
Stanley H. Coffin, 12 Pearl St., Boston, Mass.
Continental Car-Na-Var Corp., Brazil, Ind.
Eagle Woodenware Mfg. Co., Hamilton, O.
Golden Star Polish Mfg. Co., 2901 E. 13th St., Kansas
City, Mo.
Hockwald Chem. Co., 135 Mississippi St., San Francisco
Howard Dustless Duster Co., Boston, Mass.
Illinois Duster & Brush Co., 1944 Webster Ave., Chicago
W. E. Kautenberg Co., P. O. Box 255, Freeport, Ill.
Klenzall Mfg. Co., Atlanta, Ga.
Marvel Mop Division, Zelinkoff Co., Wichita, Kans.
Palmer Fixture Co., Waukesha, Wisc.
Pioneer Mfg. Co., Cleveland, Ohio
Rex-Cleanwall Corp., Brazil, Ind.
Rubon Woodfinishing & Prod. Co., 500 W 7th St.,
Kansas City, Mo. Kubon Woodfinishing & Prod. Co., 500 W 7th St.,
Kansas City, Mo.
Silver-Chamberlain Co., Clayton, N. J.
T. C. Smyth Mfg. Co., Union City, Ind.
Sweet Mop Co., 1913 Fremont Ave., South Pasadena, Cal.
Tate Mfg. Co., Boston, Mass.
M. J. Toohey & Co., Fall River, Mass.
Tuscaloosa Mills, Tuscaloosa, Ala.
Tu-Way Products Co., 1423 Franklin St., Detroit
Yocma Mills, Water Valley, Miss.

MOSQUITO LARVICIDES

Baird & McGuire, Inc., Holbrook, Mass.
Cary Mfg. Co., 4917 E. Michigan St., Indianapolis
Cenol Co., 4250 N. Pulaski Ave., Chicago
Chem. Service Co. of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Chipman Chemical Co., Bound Brook, N. J.
Churchill Mfg. Co., Galesburg, Ill.
Clifton Chemical Co., 62 William St., N. Y.
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia
Davies-Young Soap Co., Dayton, O.
E. I. du Pont de Nemours & Co., Wilmington
Eagle Soap Corp., Huntington, Ind.
Fuld Bros., 702 S. Wolfe St., Baltimore
Geigy Co., 89 Barclay St., N. Y.
Heckathorn & Co., Richmond, Calif.
Hockwald Chem. Co., 135 Mississippi St., San Francisco
R. M. Hollingshead Corp., Camden, N. J.
James Huggins & Son, 239 Medford St., Malden, Mass.
Hunt Mfg. Co., Lisbon Rd., Cleveland
Hysan Prods. Co., 932 W. 38th Place, Chicago
Koppers Co., White Tar Div., Kearny, N. J.
McCormick & Co., Inc., Baltimore, Md.
Merck & Co., Rahway, N. J.
Michigan Chem. Corp., St. Louis, Mich.
R. J. Prentiss & Co., 110 William St., N. Y.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Shell Oil Co., 50 W. 50th St., N. Y.
Texol Chemical Works, 75 Ward St., Worcester, Mass.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
Thompson-Hayward Chemical Co., Kansas City, Mo.
U. S. Sanitary Specialties Corp., 1003 S. California Blvd.,
Chicago 12
James Varley & Sons, 2100 Switzer Ave., St. Louis Chicago 12

James Varley & Sons, 2100 Switzer Ave., St. Louis
Velsicol Corp., 330 E. Grand Ave., Chicago
Whitmire Research Labs., 339 S. Vandeventer, St. Louis 10 York Chem. Co., 23 Dean St., Bklyn

MOTH CAKES AND CRYSTALS (see Deodorizing

MOTH BAGS

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Clopay Co., Cincinnati Kennedy Car Liner Co., Indianapolis Koppers Co., Pittsburgh 19 LeMontre Co., Cincinnati Puro Co., 2801 Locust St., St. Louis 3 Rosette Co., 200 Tillary St., Brooklyn

MOTH PROOFING COMPOUNDS

American Cyanamid & Chemicals Corp., 30 Rockefeller Plaza, N. Y. Ampion Corp., 4-88—47th Ave., L. I. City, N. Y. Antara Prods. Div., Gen. Aniline & Film Corp., 444 Madison Ave., N. Y. Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. Raird & McGuire, Inc., Holbrook, Mass.
Brilco Labs., 1553 63rd St., Bklyn.
Cenol Co., 4250 N. Crawford Ave., Chicago
Chem. Mfg. & Dist Co., Easton, Pa.
Chemical Service Co. of Baltimore, Howard & West Sts., Chem. Mfg. & Dist Co., Easton, ra.
Chemical Service Co. of Baltimore, Howard & West Sts., Balt.
Click Chemical Corp., 41 Morrell St., Brooklyn 6
Connecticut Chem. Research Corp., Bridgeport 5, Conn.
Dow Chemical Co., Midland, Mich.
Eagle Soap Corp., Huntington, Ind.
E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.
Elkay Prods. Co., 323 W. 16th St., N. Y.
Fairfield Labs., Inc., 417 Cleveland Ave., Plainfield, N. J.
Fine Organics, Inc., 211 E. 19th St., N. Y.
Fuld Bros., 702 S. Wolfe St., Baltimore
Geigy Co., 89 Barclay St., N. Y.
General Dyestuff Corp., 435 Hudson St., N. Y.
James Good Co., Susquehanna Ave. & Martha St., Phila.
H. W. Hamilton Co., 34 E. 39th St., N. Y.
Higley Chemical Co., Dubuque, Iowa
Hockwald Chem. Co., 135 Mississippi St., San Francisco
Arnold Hoffman Co., Providence, R. I.
R. M. Hollingshead Corp., Camden, N. J.
Hooker Electrochemical Co., Niagara Falls, N. Y.
Hysan Prods. Co., 932 W. 38th Place, Chicago
Imperial Prods. Co., 1600 Fontain St., Phila.
Koppers Co., White Tar Div., Kearny, N. J.
Kwik Products Co., 451 W. 28th St., N. Y.
Michigan Chem. Corp., St. Louis, Mich.
Onyx Oil & Chem. Co., Warren & Morris Sts., Jersey
City 2
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis City 2
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Penna. Salt Mfg. Co., 1000 Widener Bldg., Phila.
Per-Mo Products Co., 3604 Woodland Ave., Kansas City, Mo.
Puro Co., 2801 Locust St., St. Louis
Quaker Chem. Prods. Co., Conshohocken, Pa.
Chas. L. Read & Co., 120 Greenwich St., N. Y.
Reilly Tar & Chemical Corp., Indianapolis
Rohm & Haas Co., 222 W. Washington Sq., Philadelphia
Science Industries, 609-15 Geyer Ave., St. Louis
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
Solvay Sales Div., Allied Chem. & Dye Corp., 40 Rector
St., New York
Thompson-Hayward Chemical Co., 2915 S. W. Blvd.,
Kansas Citv. Mo. Kansas City, Mo.
Trio Chem. Wks., 341 Scholes St., Bklyn. 6
J. A. Tumbler Labs., 423 Hanover St., Baltimore
Jos. Turner & Co., Ridgefield, N. J.
Uncle Sam Chem. Co., 573 W. 131st St., N. Y.
U. S. Sanitary Spec. Corp., 1003 S. California Blvd.,
Chicago 12 Chicago 12 Warwick Chemical Co., 10-10 44th Ave., L. I. C. 1, N. Y. Whitmire Research Corp., 339 S. Vandeventer, St. Louis G. H. Wood & Co., Toronto, Ont., Canada

MOTH SPRAYS (see Household Insecticides, Liquid; Moth Proofing Compounds)

MOTTLED SOAPS

Lightfoot Schultz Co., Hoboken, N. J.
Los Angeles Soap Co., Los Angeles
National Soap Co., P. O. Box 1613, Tacoma, Wash.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Schmidt Soap Products Co., 236 W. North Ave., Chicago

John T. Stanley Co., 642 W. 30th St., N. Y. Swift & Co., Chicago M. Werk Co., Cincinnati, O. Allen B. Wrisley Co., 6801 W. 65th St., Chicago

MUUSE SEEDS (see Poisoned Seeds)

MUSKS, ARTIFICIAL (see Aromatic Chemicals)

NAPHTHA (see Solvent Naphtha)

NAPHTHALENE

American-British Chem. Supplies, 180 Madison Ave., N. Y.
Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.
S. H. Bell Co., 1407 Gulf Bldg., Pittsburgh John H. Calo Co., 19 Rector St., N. Y. 6
Dominion Tar & Chem. Co., Ltd., Montreal
E. I. du Pont de Nemours & Co., Inc., Wilmington, Del. Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Innis, Speiden & Co., 117 Liberty St., N. Y.
Koppers Co., White Tar Div., Kearny, N. J.
Mirvale Chem. Co., Cleckheaton, Yorks, England
Neville Co., Pittsburgh
Reilly Tar & Chem. Corp., Indianapolis
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Standard Naphthalene Prods. Co., S. Kearny, N. J.
Velsicol Corp., 330 E. Grand Ave., Chicago

NAPHTHALENE SULFONATES

Alrose Chem. Co., Box 1294, Providence, R. I.
Antara Prods., 444 Madison Ave., N. Y. 22
Atlantic Refining Co., 260 S. Broad St., Phila.
E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.
Elgo Trading Corp., 220 Broadway, N. Y. 7
Fine Organics, Inc., 211 E. 19th St., N. Y. 3
General Dyestuff Corp., 435 Hudson St., N. Y.
National Aniline & Chem. Div., 40 Rector St., N. Y.
Oronite Chemical Co., 38 Sansome St., San Francisco
Pennsylvania Refining Co., Butler, Pa.
Shell Oil Co., 50 W. 50th St., N. Y.
Stepan Chem. Co., 1353 N. Branch St., Chicago 22
L. Sonneborn Sons, 300 4th Ave., N. Y.
Warwick Wax Co., 10-10 44th Ave., L. I. C. 1, N. Y.

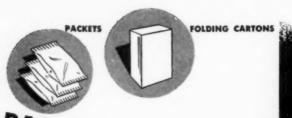
NAPHTHENATES (see Copper Naphthenate, Zinc Naphthenate)

NAPHTHENIC ACIDS (and Sulfonic Sludges)

Advance Solvents & Chem. Co., 245—5th Ave., N. Y. Atlantic Refining Co., 260 Broad St., Philadelphia John H. Calo Co., 19 Rector St., N. Y. 6
Enjay Co., 15 W. 51st St., N. Y. 19
General Petroleum Corp., 108 W. 2nd St., Los Angeles Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Hummel Chem. Co., 90 West St., N. Y.
Nuodex Prods. Co., Elizabeth, N. J.
Oronite Chem. Co., 38 Sansome St., San Francisco 4
Pennsylvania Refining Co., Butler, Pa.
Petroleum By-Products Co., 15 Whitehall St., N. Y.
Petroleum Specialties, Inc., 400 Madison Ave., N. Y.
Shell Petroleum Corp., Shell Bldg., St. Louis
Sherwood Refining Co., Englewood, N. J.
L. Sonneborn Sons, 300 4th Ave., N. Y.

NICKEL-CLAD EQUIPMENT (see also Soap Machinery)

Allied Steel & Equipment Co., Chester, N. J.
Edge Moor Iron Wks., Edge Moor, Del.
Houchin Machinery Co., Hawthorne, N. J.
International Nickel Co., 67 Wall St., N. Y.
Alan Porter Lee, Inc., 150 Broadway, N. Y.
Littleford Bros., 453 E. Pearl St., Cincinnati
Lukens Steel Corp., Coatesville, Pa.
H. K. Porter Co., 49th & Harrison Sts., Pittsburgh
Project Construction Corp., 39 Broadway, N. Y. 6
Read Machy. Div., York, Pa.
F. J. Stokes Machine Co., Philadelphia
Wurster & Sanger, Inc., 5201 S. Kenwood Ave., Chicago



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Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia E. I. du Pont de Nemours & Co., Wilmington, Del. General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.
Heckathorn & Co., Richmond, Calif.
Hood River Spray Co., Hood River, Ore.
Kay-Fries Chemicals, 180 Madison Ave., N. Y. 16
Kemiko Mfg. Co., 500 Chancellor Ave., Irvington, N. J.
Sanocide Spray Co., Fennville, Mich.
Tobacco By-Products & Chem. Corp., Richmond 8, Va.

American-British Chem. Supplies, 180 Madison Ave.,

NITRE CAKE (Sodium Acid Sulfate)

Amer. Agricultural Chem. Co. 50 Church St., N. Y.
Amer. Cyanamid & Chem. Co., 30 Rockefeller Plaza,
N. Y.
E. I. du Pont de Nemours & Co., Inc., Wilmington, Del.
Eston Chemicals, Inc., 3100 E. 26th St., Los Angeles
General Chemical Div., Allied Chem. & Dye Corp.,
40 Rector St., N. Y.
Chas. Lennig & Co., 222 W. Washington Sq., Philadelphia
Monsanto Chemical Co., 1724 S. 2nd St., St. Louis
Penna. Salt Mfg. Co., Philadelphia
Rosenthal Bercow Co., 25 E. 26th St., N. Y.

NITROPARAFFINS

Commercial Solvents Corp., 17 E. 42nd St., N. Y.

NON-SOAP DETERGENTS (see Detergents, Synthetic)

NOVELTY SOAPS

Armour & Co., 1355 W. 31st St., Chicago Hewitt Soap Co., Dayton, O. Illustrated Soap Co., 43 W. 10th St., N. Y. Lightfoot Schultz Co., 1412 Park Ave., Hoboken, N. J. Peck's Products Co., 610 E. Clarence Ave., St. Louis Schmidt Soap Products Co., 236 W. North Ave., Chicago John T. Stanley Co., 642 W. 30th St., N. Y. Unique Soaps, P. O. Box No. 61, Covington, Ky. Allen B. Wrisley Co., 6801 W. 65th St., Chicago

NOZZLES, FOR SPRAY SYSTEMS

Connecticut Chem. Research Corp., Bridgeport 5, Conn. Electric Sprayit Co., Sheboygan, Wisc. H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago 11 Monarch Mfg. Works, 3406 Miller St., Phila. Spraying Systems Co., 3201 Randolph St., Bellwood, Ill. Z & W Mach. Prods., 5151 St. Clair Ave., Cleveland 14

ODORLESS KEROSENE (see Petroleum Insecticide Base Oils, Deodorized)

OIL, BASE (see Petroleum Insecticide Base Oils)

OIL HYDROGENATION PLANTS

William Garrigue Co., 9 S. Clinton St., Chicago Alan Porter Lee, 150 Broadway, N. Y. Project Construction Corp., 39 Broadway, N. Y. 6 Robinson, Butler, Hemingway & Co., Bound Brook, N. J. Struthers Wells Titusville Corp., Warren, Pa. Wurster & Sanger, Inc., 5201 S. Kenwood Ave., Chicago

OIL MILL EQUIPMENT

V. D. Anderson Co., 1935 W. 96th St., Cleveland Bauer Bros. Co., Springfield, O. Buckeye Iron & Brass Works, Dayton, O. French Oil Mill Mach. Co., Piqua, O. William Garrigue Co., 9 S. Clinton St., Chicago Alan Porter Lee, Inc., 150 Broadway, N. Y. Ernest Scott & Co., Fall River, Mass. Sprout Waldron & Co., Mun. y, Pa. Struthers-Wells Co., Warren, Pa. Wurster & Sanger, Inc., 5201 S. Kenwood Ave., Chicago

OIL SOAP (see Potash Soaps)

OLEIC ACID (see Red Oil)

OLEYL ALCOHOL (see Fatty Alcohols)

OLIVE OIL (Commercial)

(see also Brokers and Dealers)

Irving R. Boody & Co., 120 Wall St., N. Y.
T. G. Cooper & Co., Cedar & Venango Sts., Phila.
Eastern Industries, Inc., Ridgefield, N. J.
W. R. Grace & Co., 7 Hanover Sq., N. Y.
Otto A. C. Hagen Corp., Public Ledger Bldg., Phila.
Leghorn Trading Co., 21 West St., N. Y.
J. H. Redding Co., 17 Battery Pl., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Sergeant Chem. Co., 7 Dey St., N. Y.
Smith-Weihman Co., 15 Moore St., N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y.

OLIVE OIL FOOTS

(see also Brokers and Dealers)

T. G. Cooper & Co., Cedar & Venango Sts., Phila.

Eastern Industries, Inc., Ridgefield, N. J.

Leghorn Trading Corp., 21 West St., New York
Otto A. C. Hagen Corp., Public Ledger Bldg., Phila.

J. H. Redding Co., 17 Battery Pl., N. Y.

Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10

Sergeant Chem. Co., 7 Dey St., N. Y.

Smith-Weihman Co., 15 Moore St., N. Y.

Welch, Holme & Clark Co., 439 West St., N. Y.

OLIVE OIL SOAPS (see Castile Soaps, Textile Soaps)

OPTICAL BLEACHES
American Cyanamid Co., Calco Chem. Div., Bound Brook, N. J.
General Dyestuff Corp., 435 Hudson St., N. Y. 14
Koppers Co., Pittsburgh 19, Pa.
National Aniline Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y. 6

ORTHODICHLORBENZENE (see listings under Paradichlorbenzene)

OXALIC ACID

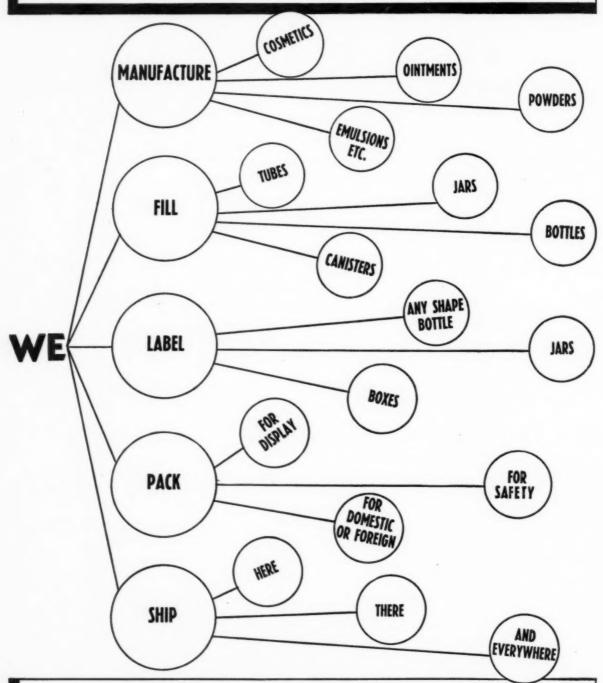
(see also Dealers)

Amer. Cyanamid & Chem. Corp., 30 Rockefeller Plaza, N. Y.
John A. Chew, Inc., 60 E. 42nd St., N. Y. 17
E. I. du Pont de Nemours & Co., Inc., Wilmington, Del. Faesy & Besthoff, Inc., 22 E. 40th St., N. Y.
General Chemical Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Innis, Speiden & Co., 117 Liberty St., N. Y.
Mallinckrodt Chemical Wks., St. Louis, Mo.
Merck & Co., Rahway, N. J.
R. J. Prentiss & Co., 110 William St., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Sergeant Chem. Co., 7 Dey St., N. Y.
Tamms Silica Co., 228 N. La Salle St., Chicago
Jos. Turner & Co., Ridgefield, N. J.
Victor Chemical Works, 141 W. Jackson Blvd., Chicago

PACKAGING (for the Trade)

G. Barr & Co., 1132 W. 37th St., Chicago 9 Bonewitz Chemicals, Inc., Burlington, Ia. Chem. Prods. Co. of N. J., 207 Astor St., Newark, N. J. Commercial Cleanser Co., 2924 Armitage Ave., Chicago Gaylord Chem. Co., 701 Woodswether Rd., Kansas City R. Gesell, Inc., 206 W. Houston St., N. Y.

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Imperial Prods. Co., 1600 Fontain St., Phila. 21
Leeds Sales Co., 34 W. 34th St., New York
Manufacturers Aid Co., 244 Green St., Bklyn. 22
McKay-Davis Co., 851 Islington St., Toledo
Packaging Service, 2458 W. 63rd St., Chicago
Private Brands, Inc., 300 S. 3rd St., Kansas City 18, Kan.
Seaboard Mfg. Labs., Water & Mifflin Sts., Phila. 48
Sheffield Tube Corp., 170 Broad St., New London, Conn.
(tube filling service)
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland 13
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
Stevens Wiley Mfg. Co., Hancock, Palethorp & W. Berks
Sts., Phila. 22, Pa.
Tex-ite Prods. Co., 60 Dobbin St., Bklyn. 22
Trans-Pac Services, Inc., 602 W. 52nd St., N. Y.
Trio Chemical Wks., 341 Scholes St., Bklyn. 6
Waverly Mfg. Co., 1825 Wylie St., Phila.
Van Pell Chem. & Supply Corp., 48 E. First St., N. Y.

PACKAGING MACHINERY (see Cartoning Machy., Filling Machy., Weighing Equip., Wrapping Machy.)

PAILS (Fibre) (see Barrels, Fibre)

PAILS, STEEL (Receptacles), (see Metal Pails)

PAILS, STEEL (Shipping Containers)

American Can Co., 230 Park Ave., N. Y. Cans, Inc., 3217 W. 47th Pl., Chicago Central Can Co., 2415 W. 19th St., Chicago Columbia Can Co., 315 Wyckoff Ave., Brooklyn Continental Can Co., 100 E. 42nd St., N. Y. Eastern Can Co., Keap St. & Kent Ave., Bklyn. Fein's Tin Can Co., Bush Terminal, Brooklyn

Geuder, Paeschke & Frey Co., Milwaukee Inland Steel Container Co., 6532 S. Menard Ave., Chicago J & L Steel Barrel Co., Pittsburgh, Pa. National Can Co., 110 E. 42nd St., N. Y. National Steel Barrel Co., 3860 E. 91st St., Cleveland Pittsburgh Can Co., Pittsburgh, Pa. Pressed Steel Tank Co., 5717 Greenfield Ave., Milwaukee Rheem Mfg. Co., 570 Lexington Ave., N. Y. Rochester Can Co., 88 Greenleaf St., Rochester 9, N. Y. F. C. Thornton Co., 6712 Union Ave., Cleveland John Trageser Steam Copper Works, Maspeth, L. I. Vulcan Stamping & Mfg. Co., Bellwood, Ill. Wheeling Corrugating Co., Wheeling, W. Va.

PAILS (Wooden)

Beaver Mills, Keene, N. H. Eagle Woodenware Mfg. Co., Hamilton, O. Gambrinus Cooperage Works, Louisville Impervious Package Co., Keene, N. H. Menasha Woodenware Co., Menasha, Wis. Richmond Cedar Works, Richmond, Va.

PALM KERNEL OIL

(see also Brokers and Dealers)

Balfour Guthrie & Co., 67 Wall St., N. Y.
Irving R. Boody & Co., 120 Wall St., N. Y.
T. G. Cooper & Co., Cedar & Venango Sts., Phila. 34
Durkee Famous Foods, Inc., 2670 Elston Ave., Chicago
Leghorn Trading Corp., 21 West St., N. Y.
Pacific Vegetable Oil Corp., 62 Townsend St.,
San Francisco, Calif.
Spencer Kellogg & Sons, Buffalo, N. Y.
J. H. Redding Co., 17 Battery Pl., N. Y.
Smith-Weihman Co., 15 Moore St., N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y.
Zimmerman Alderson Carr Co., 25 Broadway, N. Y.

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(see also Brokers and Dealers)

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T. G. Cooper & Co., Cedar & Venango Sts., Phila.
E. F. Drew & Co., Wecoline Div., Boonton, N. J.
Eastern Industries, Ridgefield, N. J.
Greene Trading Co., 60 Wall St., N. Y. 5
Otto A. C. Hagen Corp., Public Ledger Bldg., Phila.
Pacific Vegetable Oil Corp., 62 Townsend St.,
San Francisco
J. H. Redding Co., 17 Battery Pl., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Smith-Weihman Co., 15 Moore St., N. Y.
Stein, Hall & Co., 285 Madison Ave., N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y.
Zimmerman Alderson Carr Co., 25 Broadway, N. Y.

PALM OIL FATTY ACIDS (see Fatty Acids)

PAPER CANS (see Cans, Paper)

PAPER (Corrugated) (see Boxes, Corrguated)

PAPER CUPS

F. N. Burt Co., Batavia, N. Y. Continental Can Co., 100 E. 42nd St., N. Y. Individual Drinking Cup Co., Easton, Pa. Sutherland Paper Co., Kalamazoo, Mich.

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	Pea No. 2	Thru No. 41/2 on No. 7
For Shaker Top Cans	. Rice No. 1	Thru No. 7 on No. 9
For Press Forming into Blocks	Rice No.2	Thru No. 9 on No. 12
	Rice No. 3	Thru No. 12 on No. 32
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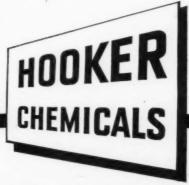
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Petroleum Specialties, Inc., 400 Madison Ave., N. Y.
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Sinclair Refining Co., 630—5th Ave., N. Y.
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Standard Oil Co. (Ind., 910 S. Michigan Ave., Chicago
Standard Oil Co. (Ohio), Midland Bldg., Cleveland
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Seeley & Co., 136 Liberty St., N. Y.
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Syntomatic Corp., 114 E. 32nd St., N. Y.
Tombarel Products Corp., 12 E. 22nd St., N. Y.
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Pennotex Oil Corp., 29 Broadway, N. Y. 6
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Oil States Pet. Co., 253 Broadway, N. Y.
Petroleum Specialties, Inc., 400 Madison Ave., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
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Shell Petroleum Corp., Shell Bldg., St. Louis
Sherwood Refining Co., Englewood, N. J.
Sinclair Refining Co., 630 Fifth Ave., N. Y.
L. Sonneborn Sons, 300 4th Ave., N. Y. 10
Standard Oil Co. (Calif.), 225 Bush St., San Francisco
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Borne-Scrymser Co., Elizabeth, N. J.
Commerce Petroleum Co., 2923 Lock St., Chicago
Deep Rock Oil Corp., 155 N. Clark St., Chicago
Empire Oil Co., Oil City, Pa.
Gulf Oil Co., Gulf Bldg., Pittsburgh
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Specific Gravity	0.777-0.784		
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Flash Point	170-180°F.		
Fire Point	185-195°F.		
Initial Boiling Point	385-395°F.		
Distillation End Point	485-495°F.		
Unsulphonatable Residue	99%		
Color	Water White		
Odor	Odorless		

Penn-Drake Super-Sol **Specifications**

A.P.I. Gravity	53/55
C.O.C. Flash °F.	130/135
C.O.C. Fire °F.	140/145
Initial Boiling Point	°F.
	330/340
End Point °F.	430/440

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Skelly Oil Co., Skelly Bldg., Kansas City, Mo.
L. Sonneborn Sons, 300 4th Ave., N. Y. 10
Standard Oil Co. (Calif.), 225 Bush St., San Francisco
Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago
Standard Oil Co. (N. J.), 26 Broadway, N. Y.
F. W. Steadman Co., 59 Pearl St., N. Y.
Standard Oil Co., 1608 Walnut St., Philadelphia
Texas Co., 135 E. 42nd St., N. Y.
Tidewater Oil Co., 11 Broadway, N. Y.

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Innis, Speiden & Co., 117 Liberty St., N. Y.
Koppers Co., Koppers Bldg., Pittsburgh, Pa.
Monsanto Chemical Co., 1760 S. 2nd St., St. Louis
Reilly Tar & Chem. Corp., Indianapolis
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10

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John A. Chew, Inc., 60 E. 42nd St., N. Y. 17

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T. G. Cooper & Co., Cedar & Venango Sts., Phila. 34

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Phoenix Naval Stores Co., Gulfport, Miss.
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Welch, Holme & Clark Co., 439 West St., N. Y.
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PINE SCRUB SOAPS (see also Floor Scrub Soaps)

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Banner Chem. Prods. Co., 60 Elm St., Newark 5
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Hockwald Chem. Co., 135 Mississippi St., San Francisco
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Knox-all Corp., 1005 E. Sumner Ave., Indianapolis
Kranich Soap Co., 60 Richards St., Brooklyn
H. Krevit & Co., 73 Welton St., New Haven, Conn.
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Science Industries, 609-15 Geyer Ave., St. Louis
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Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
John T. Stanley Co., Inc., 642 W. 30th St., N. Y.
Superior Soap Corp., 121 Nostrand Ave., Brooklyn
Tech Soap Mfg. Co., S. Chicago Ave. & 73rd St., Chicago
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Thompson-Hayward Chem. Co., Kansas City, Mo.
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American Turpentine Farmers Association, Valdosta, Ga. Godfrey L. Cabot, Inc., 77 Franklin St., Boston John H. Calo Co., 19 Rector St., N. Y. 6

E. W. Colledge, General Sales Agent, Inc., P. O. Box 389, Jacksonville, Fla.
Crosby Chemicals, Inc., Picayune, Miss.
Glidden Co., Naval Stores Div., Jacksonville, Fla.
Gulf Naval Stores Supply Co., Whitney Bldg., New Orleans New Orleans
Hercules Powder Co., 929 King St., Wilmington, Del.
Industrial Chem. Sales Div., West Va. Pulp & Paper Co.,
230 Park Ave., N. Y.
Newport Industries, Inc., 230 Park Ave., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Southern Pine Chem. Co., Box 389, Jacksonville
Taylor, Lowenstein & Co., Mobile, Ala.
G. A. Wharry & Co., 95 Broad St., N. Y. 4

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Hartford Tube Products Co., Hartford, Conn.
Houchin Machinery Co., Hawthorne, N. J.
National Pipe Bending Co., New Haven, Conn.
Philadelphia Pipe Bending Co., 4100 N. 5th St., Phila.
Pittsburgh Pipe Coil & Bending Co., Etna, Pa.
Rempe Co., 340 N. Sacramento Blvd., Chicago
Whitlock Coil Pipe Co., Hartford, Conn.

PLANT SPRAYS (see Agricultural Insecticides)

PLATES, STEEL, CORROSION-RESISTANT (see Steel, Corrosion-Resistant)

PLODDERS (see Soap Machinery)

POISONED SEEDS (Poison Grain)

Analab Labs., 285 Franklin St., Boston 10
Exterminating Materials Co., 555 W. 22nd St., N. Y.
Fuld Bros., 702 S. Wolfe St., Baltimore, Md.
Heckathorn & Co., Richmond, Calif.
Hysan Products Co., 932 W. 38th Place, Chicago
O. E. Linck Co., 51 James St., Montclair, N. J.
Sennewald Drug Co., 2721 Chouteau Ave., St. Louis
W. R. Sweeney, Salisbury, Mo.
York Chemical Co., 23 Dean St., Bklyn.

POLISH BASES (see Petroleum Bases)

POLISHES (see also Floor Waxes, etc.)

Ampion Corp., 4-88—47th Ave., L. I. City, N. Y. A-M-R Chem Co., 985 E. 35th St., Bklyn 10
Analab Labs., 285 Franklin St., Boston 10
Antiseptol Co., 5524 Northwest Highway, Chicago
Armiger Chem. Co., 2155 W. Hubbard St., Chicago
Banner Chemical Prod. Corp., 60 Elm St., Newark 5
G. Barr & Co., 1132 W. 37th St., Chicago 9
Baums Castorine Co., 200 Mathew St., Rome, N. Y.
Boston Chemical Industries, 64 E. Brookline St., Boston
Brilco Labs., 1553-63rd St., Bklyn, 19
Buckingham Wax Corp., Borden Ave. and Van Dam St.,
L. I. City, N. Y. L. I. City, N. Y.

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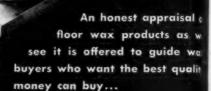
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Really cleans and scours more effectively and quicker than most scouring powders. Depending on application, it can clean to perfection even painted walls to provide a suitable repainting surface. 100% active, free from excessive abrasive quality, it frees almost every surface from all forms of foreign matter to perfection.

1. BEAUTY AND DURABILITY

should be considered together. Initial appearant is important, but for a waxed surface to reme beautiful it must be durable. Durability dependent only on resistance to the abrasion of traffibut even more so on resistance to the collecte of dirt and to discoloring traffic marks. Durability really measured by how long the waxed face maintains a nice appearance before necessity of complete removal and re-waxing

2. ANTI SLIP

qualities are necessary in a good wax as a meter of safety underfoot. This important qualidoes not necessarily require the sacrifice is beauty and protection which are the forement original reasons for the use of a wax. Look is the proper balance—a wax film which is a excessively slippery yet which is not tacky a does not excessively collect dirt.

3. WATER RESISTANCE

is important, particularly when considering a possibility of wet traffic and the necessity frequent damp mopping for the purpose of moving surface dirt. Overdoing this quality meg greater difficulty in applying multiple coats wax and may seriously increase the difficulty removal when complete cleaning and re-waxis necessary. Water resistance is important, be so is the quality of removability.

4. SOLID CONTENT

when expressed in percentage is not nearly important as the quality of the solid contex. When considering good quality, 12% of self answers most needs for good planned maintance programs. Two applications of 12% with give better results than one of 18%. However the more concentrated material is useful for serprograms of maintenance and particularly a "washed-out" floors, etc. Over-waxing should avoided so that periodic complete removal and be too difficult.

5. CARNAUBA WAX

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Cadet Laboratories, 10 Clarence St., Worcester 5, Mass. Candy & Co., 2515 W. 35th St., Chicago Cary Mfg. Co., 4586 Felton St., San Diego 4, Calif. Chemical Compounding Corp., 262 Huron St., Brooklyn Chemical Mfg. & Dist. Co., Easton, Pa.

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Oscar Fisher Co., 109 Worth St., N. Y. 13
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Golden Star Polish Mfg. Co., 2901 E. 13th St., Kansas
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James Good, Inc., 2116 Susquehanna Ave., Phila.
Gulf Oil Corp., Pittsburgh 30, Pa.
Haag Laboratories, Inc., 140th & Seeley Ave.,
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Harley Soap Co., Pierce & Orthodox Sts., Philadelphia
Higley Chemical Co., Dubuque, Iowa
Hockwald Chem. Co., 135 Mississippi St., San Francisco
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Hubman Supply Co., 225 N. 4th St., Columbus, O.
Hull Co., 305 Washington St., Brooklyn
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Masury-Young Co., 76 Roland St., Boston
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Oil Specialties & Refining Co., 18 Bridge St., Bklyn.
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Perrow Chemical Co., Hurt, Va.
Pioneer Mfg. Co., 3053 E. 87th St., Cleveland
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Puritan Soap Co., 573 Lyell Ave., Rochester, N. Y.
Quaker Chem. Prods. Co., Conshohocken, Pa.
Rex-Cleanwall Corp., Brazil, Ind.
Theo. B. Robertson Prods. Co., 700 W. Division St.,
Chicago Newark, N. J. Federal Varnish Division, S. Ashland Ave. at 29th St., Rex-Cleanwall Corp., Brazil, Ind.
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Superior Soap Corp., 121 Nostrand Ave., Brooklyn
Tesco Chem. Co., P. O. Box 4748, Atlanta
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Transmotive Labs., 2550 S. Mich. Ave., Chicago
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Vestal, Inc., 4963 Manchester St., St. Louis 10
Victory Chem. Co., 148 Fairmont Ave., Phila.
T. F. Washburn Co., 2244 Elston Ave., Chicago
Wilco Co., 4425 Bandinni Blvd., Los Angeles
Windsor Wax Co., 611 Newark St., Hoboken, N. J.
G. H. Wood & Co., Toronto, Canada

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(see also Dealers)

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John A. Chew, Inc., 60 E. 42nd St., N. Y. 17
Diamond Alkali Co., Union Commerce Bldg., Cleveland E. I. du Pont de Nemours & Co., Wilmington Julius Hyman & Co., Denver, Colo.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Niagara Alkali Co., 60 E. 42nd St., N. Y.
Solvay Sales Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Welch, Holme & Clark Co., 439 West St., N. Y.
Westvaco Chem. Div., Food Machy. & Chem. Corp.,
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Antiseptol Co., 5524 Northwest Highway, Chicago
Armour Soap Wks., 1355 W. 31st St., Chicago
Banner Chemical Products Corp., 60 Elm St., Newark,
N. J.
Baums Castorine Co., 200 Mathew St., Rome, N. Y.
Boston Chemical Industries, 64 E. Brookline St., Boston
Buckingham Wax Co., 51-03 Van Dam St., L. I. City, N. Y.
Carlstadt Chem. Co., Carlstadt, N. J.
Chemical Mfg. & Distrib. Co., Easton, Pa.
Chemical Service Co., Baltimore
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Churchill Mfg. Co., Galesburg, Ill.
Clifton Chemical Co., 62 William St., N. Y.
CMC Labs., Co., 15 Vandewater, N. Y. 7
Cole Laboratories, 22-19 37th Ave., L. I. City, N. Y.
James Counts Soap Co., 2nd & Washington Aves.,
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Creco Co., Creco Bldg., L. I. City, N. Y.
Crystal Soap & Chem. Co., 6300 State Rd., Phila. 35
Cudahy Packing Co., 221 N. La Salle St., Chicago
Davies Young Soap Co., Dayton, Ohio
Eagle Soap Corp., Huntington, Ind.
J. Eavenson & Sons, Del. & Penn Sts., Camden, N. J.
Essential Chemicals, 744 N. 4th St., Milwaukee 3
Fine Organics, Inc., 211 E. 19th St., N. Y. 3
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Genseke Bros., W. 48th Pl. & Whipple St., Chicago, Ill.
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Haaley Soap Co., Pierce & Orthodox Sts., Philadelphia
Higley Chemical Co., Dubuque, Iowa
Hockwald Chem. Co., 135 Mississippi St., San Francisco
R. M. Hollingshead Corp., Camden, N. J.
Hubman Supply Co., 225 N. 4th St., Columbus, Ohio
Hysan Products Co., 932 W. 38th Place, Chicago
Imperial Prods. Co., 1600 Fontain St., Phila.
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Masury-Young Co., 76 Roland St., Boston
Midland Labs., Dubuque, Ia.
Mione Mfg. Co., Collingdale, Pa.
National Milling & Chem. Co., 4601 Nixon St., Phila. 27
National Soap Co., 357 South 25th St., Tacoma, Wash.
Nopco Chem. Co., Harrison, N. J.
North Coast Chem. & Soap Wks., Seattle, Wash.
N. Y. Soap Co., 258 Third St., Brooklyn
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Rochester Germicide Co., 333 Hollenbeck St.,
Rochester 5, N. Y.
Royal Soap & Chem. Co., 511 S. Central Ave.,
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Rubon Woodfinishing & Prods. Co., 500 W. 7th St.,
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Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.
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John T. Stanley Co., 642 W. 30th St., N. Y.
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John A. Chew, Inc., 60 E. 42nd St., N. Y. 17
E. I. du Pont de Nemours & Co., Wilmington, Del.
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Merck & Co., Rahway, N. J.
Niagara Alkali Co., 60 E. 42nd St., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Solvay Sales Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.
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POWDERED SOAP (see Soap, Powdered) Do not confuse with Soap Powders)

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PRESSES (Automatic Soap)

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First Machy. Corp., 157 Hudson St., N. Y. (Used)
Houchin Machinery Co., Hawthorne, N. J.
R. A. Jones & Co., P. O. Box 485, Cincinnati 1
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago (Used)

PRESSES (Foot and Hand Lever for Soap and Para Cakes)

Consolidated Prods. Co., 15 Park Row, N. Y. (Used)
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Houchin Machinery Co., Hawthorne, N. J.
Huber Machine Co., 259 46th St., Brooklyn
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago
F. J. Stokes Mach. Co., Philadelphia, Pa.

PRIVATE FORMULAS (see under individual products)

PRIVATE LABEL PACKAGING, FILLING (see Packaging for the trade)

PROPELLENTS, (see Aerosol Dispersants)

PUMICE

California Industrial Minerals Co., Friant, Calif. Chas. B. Chrystal Co., 53 Park Pl., N. Y. Heckathorn & Co., Richmond, Calif.
Pacific Coast Pumice Co., Bishop, Calif.
Pumice Corp. of America, Grants, N. M. Wm. P. Rogers, 80 Park St., Beverly, Mass.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10 Tamms Silica Co., 228 N. La Salle St., Chicago Chas. A. Wagner Co., 813 Callowhill St., Phila. Whittaker, Clark & Daniels, 260 W. Bway., N. Y.

PUMICE SOAPS (see Scouring Soaps)

PYRETHRUM FLOWERS AND POWDER (Insect Powder)

An-Fo Mfg. Co., 3129 Elmwood Ave., Oakland, Cal. Derris, Inc., 79 Wall St., N. Y. Greene Trading Co., 70 Pine St., N. Y. (agents for foreign sellers)
Hammond Paint & Chemical Co., Beacon, N. Y. Heckathorn & Co., Richmond, Calif.
J. L. Hopkins & Co., 220 Broadway, N. Y. McCormick & Co., Baltimore, Md. McLaughlin, Gormley, King Co., 1715 Fifth St., S.E., Minneapolis
S. B. Penick & Co., 50 Church St., N. Y. John Powell & Co., 1 Park Ave., N. Y. R. J. Prentiss & Co., 110 William St., N. Y. Rosenthal Bercow Co., 25 E. 26th St., N. Y. U. S. Industrial Chemicals, Inc., 60 E. 42nd St., N. Y.

PYRETHRUM EXTRACT

An-Fo Mfg. Co., 3129 Elmwood Ave., Oakland, Cal. Baird & McGuire, Inc., Holbrook, Mass.

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PYRETHRUM EXTRACT (Contd.)

Hammond Paint & Chemical Co., Beacon, N. Y.
Heckathorn & Co., Richmond, Calif.
J. L. Hopkins & Co., 220 Broadway, N. Y.
McCormick & Co., Baltimore
McLaughlin, Gormley, King Co., 1715 Fifth St., S.E.,
Minneapolis
S. B. Porick & Co., 50 Chamber Co., N. Y. Minneapolis
S. B. Penick & Co., 50 Church St., N. Y.
John Powell & Co., 1 Park Ave., N. Y.
R. J. Prentiss & Co., 110 William St., N. Y.
U. S. Industrial Chemicals, Inc., 60 E. 42nd St., N. Y.

PYRETHRUM, SYNTHETIC (see Cinerin)

PYROPHYLLITE

Attapulgus Clay Co, 210 W. Washington Sq., Phila. Carolina Pyrophyllite Co., 10 E. 40th St., N. Y. Chas. B. Chrystal Co., 53 Park Pl., N. Y. Dicalite Div., 612 S. Flower St., Los Angeles, Calif. Kennedy Minerals Co., 2550 E. Olympic Blvd., Los Angeles, Cal.

Pioneer Pyrophyllite Producers, P. O. Box 686, Chula

Vista, Calif. Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Tamms Silica Co., 229 N. LaSalle St., Chicago
R. T. Vanderbilt Co., 230 Park Ave., N. Y.
Whittaker, Clark & Daniels, 260 W. Bway., N.
Witco Chemical Co., 295 Madison Ave., N. Y.

PUMPS

Aldrich Pump Co., 1 Pine St., Allentown, Pa.
Allied Steel & Equipt. Co., Chester, N. J.
Alsop Engineering Corp., 103 Green St., Milldale, Conn.
American Steam Pump Co., Battle Creek, Mich.
Beach-Russ Co., 50 Church St., N. Y.
Blackmer Pump Co., Grand Rapids, Mich.
S. F. Bowser & Co., Ft. Wayne, Ind.
Buffalo Forge Co., 490 Broadway, Buffalo, N. Y.
Consolidated Prods. Co., 15 Park Row, N. Y. (Used)
M. T. Davidson Co., 154 Nassau St., N. Y.
Eastern Industries, Inc., 296 Elm St., New Haven, Conn.
Eco Mfg. Co., 12 New York Ave., Newark, N. J.
Filter Paper Co., 2464 S. Michigan Ave., Chicago
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Foster Pumps, Inc., 51 Washington St., Brooklyn, N. Y.
Gould Pumps, Inc., Seneca Falls, N. Y.
Joshua Hendy Iron Wks., Pomona, Calif.
Houchin Machinery Co., Hawthorne, N. J.
Ingersoll-Rand Co., 11 Broadway, N. Y.
Jabsco Pump Co., 2031 N. Lincoln St., Burbank, Calif.
Karl Kiefer Machine Co., 919 Martin St., Cincinnati
Lobee Pump & Machine Co., Buffalo, N. Y.
Manton Gaulin Mfg. Co., 44 Garden St., Everett, Mass.
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago (Used)
Oberdorfer Foundries, Inc., 5100 Thompson Rd., Chicago (Used) Chicago (Used)
Oberdorfer Foundries, Inc., 5100 Thompson Rd.,
Syracuse, N. Y.
H. K. Porter Co., Oliver Bldg., Pittsburgh
Scientific Filter Co., 2 Franklin Square, N. Y.
T. Shriver & Co., Harrison, N. J.
Henry Simon Ltd., Cheadle Heath, England
F. J. Stokes Machine Co., Philadelphia, Pa.
Taber Pump Co., 278 Elm St., Buffalo, N. Y.
Valley Foundry & Mach. Co., 710 H St., Fresno 10, Calif.
Viking Pump Co., Cedar Falls, Iowa
Worthington Pump & Machinery Co., 2 Park Ave., N. Y.

QUATERNARY AMMONIUM COMPOUNDS (see also Disinfectants, Quaternary Ammonium)

Alrose Chem. Co., Box 1294, Providence, R. I. Armour & Co., 1355 W. 31st St., Chicago 9 J. T. Baker Chemical Co., Phillipsburg, N. J. Carlstadt Chem. Co., Carlstadt, N. J. Chemical Service Co. of Baltimore, Balto. 30 Clarkson Co., 919 N. 9th St., Phila. 23 Cowles Chemical Co., 7016 Euclid Ave., Cleveland 3 E. F. Drew & Co., 15 E. 26th St., N. Y. 10 E. I. du Pont de Nemours & Co., Wilmington Emulsol Corp., 59 E. Madison St., Chicago

Fairfield Labs., Inc., 417 Cleveland Ave., Plainfield, N. J. Fine Organics, 211 E. 19th St., N. Y. 3
Hooker Electrochemical Co., Niagara Falls, N. Y. Merck & Co., Rahway, N. J.
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis Murro Chemical Co., P. O. Box 185, Asheville, N. C. Nopco Chemical Co., Harrison, N. J.
Onyx Oil & Chem. Co., Jersey City, N. J.
Oronite Chem. Co., 38 Sansome St., San Francisco Penna. Salt Mfg. Co., Widener Bldg., Phila.
Rohm & Haas, 222 W. Washington Sq., Phila.
E. B. Snyder Labs., 2137 E. Harold St., Philadelphia Sterwin Chemicals, Inc., 170 Varick St., N. Y.

QUATERNARY AMMONIUM DISINFECTANTS (See Disinfectants, Quaternary Ammonium)

RAT EXTERMINATING PRODUCTS

A-M-R Chem. Co., 985 E. 35 St., Bklyn. 10
An-Fo Mfg. Co., 3129 Elmwood Ave., Oakland, Calif. Barton Chem. Co., 3907 S. Langley Ave., Chicago Cenol Co., 4250 N. Pulaski Ave., Chicago Chem. Service Co. of Balto., Howard & West Sts., Balto. Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago E. I. du Pont de Nemours & Co., Wilmington Eagle Soap Corp., Huntington, Ind. Elkay Products Co., 323 W. 16th St., N. Y. Exterminating Materials Co., 555 W. 22nd St., N. Y. Fuld Bros., 702 S. Wolfe St., Baltimore Foote Mineral Co., 1609 Summer St., Philadelphia Heckathorn & Co., 135 Mississippi St., San Francisco Hysan Products Co., 932 W. 38th Place, Chicago Imperial Prods. Co., 117 Liberty St., N. Y. Lethelin Products Co., Mt. Vernon, N. Y. Lewis Soap & Chem. Co., 2210 San Pablo Ave., Oskland, Calif. O. E. Linck Co., 51 James St., Montclair, N. J.
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis
John Opitz, Inc., 50-14 39th St., Long Island City, N. Y.
S. B. Penick & Co., 50 Church St., N. Y. C.
Per-Mo Products Co., 3604 Woodland Ave., Kansas City, Mo.
Pfaltz & Bauer, Inc., 350 Fifth Ave., N. Y.
Pittsburgh Agr. Chem. Co., 350 Fifth Ave., N. Y.
Pittsburgh Agr. Chem. Co., 350 Fifth Ave., N. Y.
John Powell & Co., 1 Park Ave., N. Y.
R. J. Prentiss & Co., 110 William St., N. Y.
Ratin Laboratories, Inc., 112 Broad St., N. Y.
Science Industries, 609-15 Geyer Ave., St. Louis
Sennewald Drug Co., 2721 Chouteau Ave., St. Louis
Thompson-Hayward Chem. Co., Kansas City 8, Mo.
Sparhawk Co., Sparkill, N. Y.
Sur-Rid Prods. Co., 455 Paul Brown Bldg., St. Louis
J. A. Tumbler Labs., 423 Hanover St., Baltimore
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
U. S. Sanitary Specialties Corp., 1003 S. California Blvd.,
Chicago 12
Victory Chem. Co., 148 Fairmount Ave., Philadelphia
York Chemical Co., 23 Dean St., Bklyn.

RAT POISONS (see Squills, Phosphorus Paste, Thallium Sulfate, etc.)

RED OIL (Oleic Acid)

(see also Brokers and Dealers)

American British Chem. Supplies, Inc., 180 Madison Ave., American British Chem. Supplies, Inc., 180 Madison Ave., N. Y.
American Cyanamid & Chemicals Corp., 30 Rockefeller Plaza, N. Y.
Armour Chem. Div., 1355 W. 31st St., Chicago John H. Calo Co., 19 Rector St., N. Y. 6
Celina Stearic Acid Co., Celina, Ohio Century Stearic Acid Candle Works, 41 E. 42nd St., N. Y. Darling & Co., 4201 S. Ashland Ave., Chicago E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Eastern Industries, Ridgefield, N. J.
Emery Industries, Inc., 4300 Carew Tower, Cincinnati

RED OIL (Oleic Acid) (Contd.)

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ti OK Falk & Co., Pittsburgh 30
General Mills, Inc., 400 2nd Ave. S., Minneapolis 7, Minn.
Griffin Chem. Co., 1000 16th St., San Francisco
A. Gross & Co., 295 Madison Ave., N. Y.
Otto A. C. Hagen, Public Ledger Bldg., Philadelphia
W. C. Hardesty Co., 41 E. 42nd St., N. Y.
Arnold Hoffman & Co., 55 Canal St., Providence, R. I.
Procter & Gamble Co., Cincinnati
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Theobald Industries, Kearny, N. J.
Arthur C. Trask Co., 4108 S. La Salle St., Chicago
Welch, Holme & Clark Co., 439 West St., N. Y.
M. Werk Co., St. Bernard, Cincinnati
Wilson-Martin Co., Snyder Ave. & Swanson St.,
Philadelphia
Woburn Chem. Corp., Harrison, N. J.

REFINING EQUIPMENT (Glycerine)

E. B. Badger Co., 25 Pitts St., Boston
Buffalo Foundry & Machine Co., Buffalo, N. Y.
Consolidated Prods. Co., 15 Park Row, U. Y. (Used)
First Machy. Corp., 157 Hudson St., N. Y. (Used)
William Garrigue & Co., 9 S. Clinton St., Chicago
Alan Porter Lee, Inc., 150 Broadway, N. Y.
Lancaster Iron Works, 564 S. Prince St., Lancaster, Pa.
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago (Used)
Ernest Scott & Co., Fall River, Mass.
Struthers-Wells Co., Warren, Pa.
Walter E. Simmons Co., Boston
Swenson Evaporator Co., Harvey, Ill.
Wurster & Sanger, Inc., 5201 S. Kenwood Ave., Chicago

REFRIGERATING EQUIPMENT

H. Loeb & Son., 4600 Lancaster Ave. ,Philadelphia York Ice Machine Co., York, Pa.

RESPIRATORS

Davis Emergency Equipment Co., 55 Vandam Ave., New York Electric Sprayit Co., Sheboygan, Wis. Goggle Parts Co., Cleveland 13 Mine Safety Appliances Co., Braddock and Thomas Sts., Pittsburgh Pulmosan Safety Equipment Corp., 644 Pacific St., Bklyn. 17

RHODINOL (see Aromatic Chemicals)

ROACH PASTE

John Opitz, Inc., 50-14 39th St., L. I. City, N. Y. Sennewald Drug Co., 2721 Chouteau Ave., St. Louis

ROACH POWDERS (see Household Insecticides, Powder)

ROSE OIL (see Essential Oils)

ROSEMARY OIL (see Essential Oils)

ROSIN

American Turp. Farmers Assn., Valdosta, Ga.
Antwerp Naval Stores Co., Savannah, Ga.
John H. Calo Co., 19 Rector St., N. Y. 6
E. W. Colledge, General Sales Agent, P. O. Box 389,
Jacksonville, Fla.
Continental Turp. & Rosin Corp., Laurel, Miss.
T. G. Cooper & Co., Cedar & Venango Sts., Phila. 4
Crosby Chemicals, Inc., De Ridder, La.
Dixie Pine Prods. Co., Hattiesburg, Miss. (wood)
General Mills, Chemical Div., 400 2nd Ave.
Minneapolis 1
Georgia Rosin Prods. Co., Brunswick, Ga.
Glidden Co., Naval Stores Div., P. O. Box 380,
Jacksonville, Fla.
Hercules Powder Co., 929 King St., Wilmington, Del.

Industrial Chem. Sales Div., West Va. Pulp & Paper Co., 230 Park Ave., N. Y.

Murro Chemical Co., P. O. Box 185, Asheville, N. C.
Newport Industries, Inc., 230 Park Ave., N. Y.
Phoenix Naval Stores Co., Gulfport, Miss. (wood)
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Southern Pine Chem. Co., Box 389, Jacksonville
Taylor, Lowenstein & Co., Mobile, Ala.
Wax & Rosin Prods., 42 Broadway, N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y.
G. A. Wharry & Co., 95 Broad St., N. Y.

ROSIN SOAPS (Saponified Rosins)

Armour & Co., 1355 W. 31st St., Chicago 9
Boston Chem. Industries, 64 E. Brookline St., Boston 18
Chemical Mfg. & Dist. Co., Easton, Pa.
Chem. Service Co. of Balto., Howard & West Sts., Balto.
Crosby Chemicals, Inc., Inc., Deridder., La.
Chicago Sanitary Prods. Co., 3100 S. Throop St.,
Chicago 8
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia
Davies-Young Soap Co., Dayton 1, O.
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Essential Chem. Co., 744 N. 4th St., Milwaukee 3
James Good, Inc., 2116 E. Susquehanna Ave., Philadelphia
Haskins Bros. & Co., Omaha
Hercules Powder Co., 929 King St., Wilmington, Del.
Kamen Soap Prod. Co., 233 Broadway, N. Y. 7
National Milling & Chem. Co., 4601 Nixon St., Phila. 27
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Quaker Chemical Prods. Co., Conshohocken, Pa.
Theo. B. Robertson Prods. Co., 700 W. Division St.,
Chicago
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
John T. Stanley Co., 642 W. 30th St., N. Y.
Trio Chem. Wks., 341 Scholes St., Bklyn 6
G. H. Wood & Co., Toronto, Ont., Canada
Chas. W. Young & Co., 1247 N. 26th St., Philadelphia

ROTENONE FORMULATIONS (see also Derris)

Agicide Laboratories, 1717 Taylor Ave., Racine, Wis. American-British Chem. Supplies, 180 Madison Ave., N. Y. 16
California Spray-Chemical Corp., Lucas & Ortho Way, Richmond, Calif.
Chipman Chem. Co., Bound Brook, N. J.
Derris, Inc., 79 Wall St., N. Y.
Hammond Paint & Chem. Co., Beacon, N. Y.
Heckathorn & Co., Richmond, Calif.
Jooster & Janssen, 132 Front St., N. Y.
Kay-Fries Chemicals, 180 Madison Ave., N. Y. 16
Lenape Trading Co., 233 Broadway, N. Y.
McCormick & Co., Baltimore, Md.
Orbis Products Corp., 215 Pearl St., N. Y.
S. B. Penick & Co., 50 Church St., N. Y.
John Powell & Co., 1 Park Ave., N. Y.
R. J. Prentiss & Co., 110 William St., N. Y.
U. S. Indus. Chemicals, Inc., 60 E. 42nd St., N. Y.
Virginia-Carolina Chem. Corp., Richmond 8, Va.
Whitmire Research Corp., 339 Vandeventer, St. Louis

RUG and UPHOLSTERY CLEANERS

Alrose Chem. Co., Box 1294, Providence, R. I.
Ampion Corp., 4-88—47th Ave., L. I. City, N. Y.
Analab Labs., 285 Franklin St., Boston 10
Antara Prods., 444 Madison Ave., N. Y. 22
Boston Chem. Industries, 64 E. Brookline St., Boston 18
Brilco Labs., 1553-63rd St., Bklyn 19
Bri-Test Prods. Corp., 845 E. 138th St., New York
Buckingham Wax Corp., Van Dam St. & Borden Ave.,
L. I. City
Candy & Co., 2515 W. 35th St., Chicago
Carlstadt Chem. Co., Carlstadt, N. J.
Chemical Mfg. & Dist. Co., Easton, Pa.
Chem. Service of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prod. Co., 3100 S. Throop St., Chicago 8
Churchill Mfg. Co., Galesburg, Ill.
Clarke Sanding Machine Co., Muskegon, Mich.
Clifton Chemical Co., 62 William St., N. Y.
Cole Laboratories, 22-19 37th Ave., L. I. City, N. Y.
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia

RUG AND UPHOLSTERY CLEANERS (Contd.)

Davies-Young Soap Co., Dayton, O.
Eagle Soap Corp., Huntington, Ind.
Essential Chem. Co., 744 N. 4th St., Milwaukee 3
Fine Organics, Inc., 211 E. 19th St., N. Y. 3
Fuld Bros., 702 S. Wolfe St., Baltimore
Gaylord Chem. Co., 701 Woodswether Rd., Kansas City
James Good, Inc., 2116 Susquehanna Ave., Phila. James Good, Inc., 2116 Susquehanna Ave., Phila.

Haag Laboratories, Blue Island, Ill.

Higley Chem. Co., Dubuque, Iowa
Hild Floor Machine Co., 1313 W. Randolph St., Chicago
Hockwald Chem. Co., 135 Mississippi St., San Francisco
Arnold Hoffman Co., Providence, R. I.

Hubman Supply Co., 225 N. 4th St., Columbus, O.

Hysan Prods. Co., 1600 Fontain St., Phila.

H. Krevit & Co., 73 Welton St., New Haven, Conn.

Kwik Products Co., 451 W. 28th St., N. Y.

Lorenz Chem. Co., 135 N. 22nd Ave., Omaha

M & H Laboratories, 2705 Archer Ave., Chicago
M. Michel & Co., 90 Broad St., N. Y.

Midland Labs., Dubuque, Ia.

Multi-Clean Prods., Inc., 2277 Ford P'kway, St. Paul,

Minn.

Midland Lads., Duduque, 1a.
Multi-Clean Prods., Inc., 2277 Ford P'kway, St. Paul,
Minn.

Nopco Chem. Co., Harrison, N. J.
Onyx Oil Chem. Co., Warren & Morris Sts., Jersey City 2
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Per-Mo Products Co., 3604-B Woodland Ave., Kansas City
Rex-Cleanwall Corp., Brazil, Ind.
Theo. B. Robertson Prods. Co.
700 W. Division St., Chicago
Science Industries, 609-15 Geyer Ave., St. Louis
E. B. Snyder Labs., 2137 E. Harold St., Philadelphia
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
Tech Soap Co., S. Chicago & 73rd St., Chicago
Tesco Chem. Co., P. O. Box 4748, Atlanta
Texol Chem. Works, 75 Ward St., Worcester, Mass.
Thompson-Hayward Chem. Co., Kansas City, Mo.
Transmotive Labs., 2550 S. Michigan Ave., Chicago
Trio Chem. Wks., 341 Scholes St., Bklyn.
J. A. Tumbler Labs., 423 Hanover St., Baltimore
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.

U. S. Sanitary Specialties Corp., 1003 S. California Blvd., Chicago 12
Universal Chem. Corp., 35 E. Market St., Akron, O.
James Varley & Sons, 1200 Switzer Ave., St. Louis
Washine-National Sands, Inc., 37-02 Northern Blvd., Washine-National Sands, Inc., 37-02 Northern Biv Long Island City Wilco Co., 4425 Bandinni Blvd., Los Angeles G. H. Wood & Co., Toronto, Ont., Canada Wyandotte Chemicals Corp., Wyandotte, Mich. Chas. W. Young & Co., 1247 N. 26th St., Philadelphia

SADDLE SOAP

Armour & Co., 1355 W. 31st St., Chicago
Asco Chemical Co., 641 Lexington Ave., Brooklyn
Baum's Castorine Co., Rome, N. Y.
Chem. Service Co. of Balto., Howard & West Sts., Balto.
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia
Davies-Young Soap Co., Dayton, O.
James Good, Inc., 2116 Susquehanna Ave., Phila.
Harley Soap Co., Pierce & Orthodox Sts., Philadelphia
R. M. Hollingshead Corp., Camden, N. J.
Hysan Prods. Co., 932 W. 38th Place, Chicago
Lorenz Chem. Co., 135 N. 32nd Ave., Omaha
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Theo. B. Robertson Prods. Co., Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Theo. B. Robertson Prods. Co.,
700 W. Division St., Chicago
Rome Soap Mfg. Co., Rome, N. Y.
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
John T. Stanley Co., 642 W. 30th St., N. Y.
Superior Soap Corp, 121 Nostrand Ave., Brooklyn
J. A. Tumbler Labs., 423 Hanover St., Baltimore
Windsor Wax Co., 611 Newark St., Hoboken, N. J.
G. H. Wood & Co., Toronto, Ont., Canada

SAL AMMONIAC (see Ammonium Chloride)

SAL SODA

(see also Dealers)

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SAL SODA (Contd.)

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John H. Calo Co., 19 Rector St., N. Y. 6
Church & Dwight Co., 70 Pine St., N. Y.
Diamond Alkali Co., 300 Union Commerce Bldg.,
Cleveland 14
E. I. du Pont de Nemours & Co., Wilmington, Del.
Emeryville Chem. Co., 405 Montgomery St.,
San Francisco
General Chemical Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Mathieson Chemical Corp., 10 Light St., Balto.
Pittsburgh Plate Glass Co., Columbia Chem. Div.,
5th & Bellefield, Pittsburgh 13
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Solvay Sales Div., Allied Chem. & Dye Corp., 40 Rector
St., N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Welch, Holme & Clark Co., 439 West St., N. Y.

SALT (Common Salt)

(see also Dealers)

Dow Chemical Co., Midland, Mich.
International Salt Co., 475 Fifth Ave., N. Y.
LeRoy Salt Co., LeRoy, N. Y.
Michigan Chem. Corp., St. Louis, Mich.
Myles Salt Co., 1007 Camp St., New Orleans, La.
Penna. Salt Mfg. Co., Widener Bldg., Phila.
Pittsburgh Plate Glass Co., Columbia Chem. Div.,
5th & Bellefield, Pittsburgh 13
Pomeroy Salt Co., Pomeroy, Ohio
Remington Salt Co., Ithaca, N. Y.
Solvay Sales Div., Allied Chem. & Dye Corp., 40 Rector
St., N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Welch, Holme & Clark Co., 439 West St., N. Y.

SALT WATER SOAP (Marine Soaps)

Antiseptol Co., 5524 Northwest Highway, Chicago Armour Soap Wks., 1355 W. 31st St., Chicago Chemical Service Co. of Baltimore, Howard & West Sts., Baltimore 30
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8
J. Eavenson & Sons, Camden, N. J.
Essential Chems. Co., 744 N. 4th St., Milwaukee 3
Hewitt Soap Co., Dayton, O.
Hockwald Chem. Co., 135 Mississippi St., San Francisco Los Angeles Soap Co., Los Angeles
Miranol Chemical Co., 16 Melville Pl., Irvington, N. J.
Newell-Gutradt Co., San Francisco
Onyx Oil & Chem. Co., Warren & Morris Sts.
Jersey City 2
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Procter & Gamble Co., Cincinnati, O.
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago
M. Werk Co., Cincinnati

SAMPLE CASES

Arrow Mfg. Co., 15th & Hudson Sts., Hoboken, N. J. Knickerbocker Case Co., 2311 N. Crawford Ave., Chicago

SAND URNS

Atlas Prods. Co., 9239 S. Houston Ave., Chicago 17 Compco Corp., 2251 W. St. Paul Ave., Chicago 47 Ex-Cell Prods. Corp., 1233 S. Wabash Ave., Chicago 5 J. H. Lawson Co., 800 Evans St., Cincinnati 4, O. Rochester Can Co., 8 Greenleaf St., Rochester 9, N. Y.

SANDALWOOD OIL (see Essential Oils)

SAPONIN (Ext. Soap Bark)

Dodge & Olcott, Inc., 180 Varick St., N. Y. A. C. Drury & Co., 219 East North Water St., Chicago Enco Chem. Corp., 441 Lexington Ave., N. Y. Florasynth Labs.. 1513 Olmstead Ave., Bronx, N. Y. Fritzsche Brothers, Inc., 76 Ninth Ave., N. Y. Hoffman-La Roche, Inc., Nutley, N. J.
Interstate Color Co., 5 Beekman St., N. Y.
Geo, Lueders & Co., 427 Washington St., N. Y.
Magnus, Mabee & Reynard, 16 Debrosses St., N. Y.
Merck & Co., Rahway, N. J.
S. B. Penick & Co., 50 Church St., N. Y.
R. J. Prentiss & Co., 110 William St., N. Y.
Robinson Wagner Co., 110 E. 42nd St., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Schimmel & Co., 601 W. 26th St., N. Y.

SASSAFRAS, Artificial (see Aromatic Chemicals)

SCALES (see Weighing Equipment)

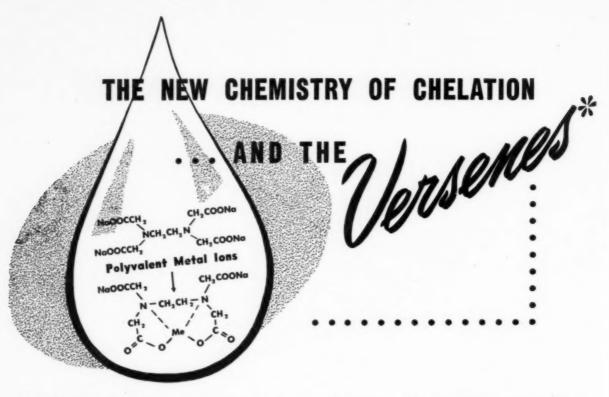
SCOURING POWDERS

American Soap Powder Wks., Inc., 98 Van Dyke St., Brooklyn
American Soap & Washoline Co., Cohoes, N. Y.
Armour & Co., 1355 W. 31st St., Chicago
B. T. Babbitt, Inc., 386—4th Ave., N. Y. 16
Baum's Castorine Co., 200 Mathew St., Rome, N. Y.
Buck-Jack Co., 3056 Federal St., Baltimore
Chemical Mfg. & Distrib. Co., Easton, Pa.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Churchill Mfg. Co., Galesburg, Ill
Clarkson Co., 919 N. 9th St., Phila. 23
Colgate-Palmolive-Peet Co., Jersey City, N. J.
Cudahy Packing Co., 221 N. La Salle St., Chicago
Du Bois Soap Corp., Huntington, Ind.
Essential Chems. Co., 744 N. 4th St., Milwaukee 3
Fuld Bros., 702 S. Wolfe St., Baltimore
Hercules Chem. Co., 332 Canal St., N. Y. 13
Higley Chem. Co., Dubuque, Iowa
Hockwald Chem. Co., 135 Mississippi St., San Francisco
Hubman Supply Co., 225 N. 4th St., Columbus, O.
Hysan Prods., 932 W. 38th Place, Chicago
Imperial Products Co., 1600 Fontain St., Phila.
Kamen Soap Prods., Woolworth Bldg., N. Y.
Kearny Mfg. Co., Kearny, N. J.
Los Angeles Soap Co., 617 E. First St., Los Angeles
Midland Labs., Dubuque, Ia.
Murro Chemical Co., Asheville, N. C.
National Milling & Chem. Co., 4601 Nixon St., Phila. 24
Pacific Chem. Co., 1412 N. Main St., Los Angeles
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Penna. Salt Mfg. Co., Widener Bldg., Philadelphia
Pittsburgh Plate Glass Co., Columbia Chemical Div.,
5th & Bellefield, Pittsburgh 13
Port Huron Detergent Co., Port Huron, Mich. American Soap Powder Wks., Inc., 98 Van Dyke St., Penna. Sait Mfg. Co., Widener Bldg., Philadelphia
Pittsburgh Plate Glass Co., Columbia Chemical Div.,
5th & Bellefield, Pittsburgh 13
Port Huron Detergent Co., Port Huron, Mich.
Procter & Gamble Co., Cincinnati
Puritan Chem. Co., 209 Peters St., S.W., Atlanta
Theo. B. Robertson Prods. Co.,
700 W. Division St., Chicago
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.
E. B. Snyder Labs., 2137 E. Harold St., Philadelphia 25
Solvay Sales Div., Allied Chem. & Dye Corp., 40 Rector
St., N. Y.
S. & S. Soap Co., 324 Barretto St., Bronx, N. Y.
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
John T. Stanley Co., 642 W. 30th St., N. Y.
Stevens Soap Corp., 200 Sullivan St., Brooklyn
Swift & Co., Chicago
Tech Soap Co., S. Chicago & 73rd St., Chicago
Tesco Chem. Co., P. O. Box 4728, Atlanta
U. S. Sanitary Specialties Corp., 1003 S. California Blvd.,
Chicago 12
Virginia-Carolina Chem. Corp., Richmond 8, Va. Chicago 12
Virginia-Carolina Chem. Corp., Richmond 8, Va.
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.
Warwick Wax Co., 10-10 44th Ave., L. I. C. 1, N. Y.
G. H. Wood & Co., Toronto, Ont., Canada
Allen B. Wrisley Co., 601 W. 65th St., Chicago
Wyandotte Chem. Corp., Wyandotte, Mich.
Chas. W. Young & Co., 1247 N. 26th St., Philadelphia

SCOURING SOAPS (Bars)

American Soap & Washoline Co., Cohoes, N. Y. Armour Soap Works, 1355 W. 31st St., Chicago Baum's Castorine Co., Rome, N. Y. Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago Cudahy Packing Co., 221 N. La Salle St., Chicago James Good, Inc., 2116 E. Susquehanna Ave., Philadelphia

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West Coast Agent:
Griffin Chemical Co., San Francisco-Los Angeles—Warehouse Stocks

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Hewitt Soap Co., Dayton, O.
Kamen Soap Products Co., 233 Broadway, N. Y. 7
Los Angeles Soap Co., Los Angeles
Murro Chemical Co., P. O. Box 185, Asheville, N. C.
National Soap Co., P. O. Box 1631, Tacoma, Wash.
Peck's Products Co., 610 E. Clarence Ave., St. Louis
Port Huron Detergent Co., Port Huron, Mich.
Procter & Gamble Co., Cincinnati, O.
Theo. B. Robertson Prods. Co.,
700 W. Division St., Chicago
Schmidt Soap Products Co., 236 W. North Ave., Chicago
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago
Warren Soap Mfg. Co., 51 Waverly St.,
Cambridge, Mass.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago
Chas. W. Young & Co., 1247 N. 26th St., Phila.

SCREENS (Screening and Sifting Equipment)

Allied Steel & Equipt. Co., Chester, N. J.
B. F. Gump Co., 1325 S. Cicero Ave., Chicago
J. H. Day Co., 1100 Harrison Ave., Cincinnati
J. M. Lehmann Co., Lyndhurst, N. J.
Ludlow-Sayer Wire Co., St. Louis, Mo.
Orville Simpson Co., 1230 Knowlton St., Cincinnati
Simplicity Engineering Co., Durand, Mich.
Sprout, Waldron & Co., Muncy, Pa.
Stedman's Fdy. & Machine Works, Aurora, Ind.
Stephens-Adamson Mfg. Co., Aurora, Ill.
Sturtevant Mill Co., Boston, Mass.
W. S. Taylor Co., Cleveland, O.
Troy Engine & Mach. Co., Troy, Pa.
Wickwire Spencer Steel Co., 500—5th Ave., N. Y.

SCRUBBING SOAPS, LIQUID (see Floor Scrub Soaps)

SEALING MACHINERY (Bags)

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Allied Steel & Equipt. Co., Chester, N. J.
Bagpak, Inc., 220 E. 42nd St., N. Y. 17
B. F. Gump Co., 1325 S. Cicero Ave., Chicago
New Jersey Machine Corp., Hoboken, N. J.
St. Regis Paper Co., 230 Park Ave., N. Y.
Stokes & Smith Co., 4915 Summerdale Ave., Philadelphia
Weigh Right Automatic Scale Co., Joliet, Ill.

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A-B-C Packaging Machy. Corp., Quincy, Ill.
Allied Steel & Equipment Co., Chester, N. J.
Arenco Mach. Co., 25 W. 43rd St., N. Y. 18
Burt Machine Co., 401 E. Oliver St., Baltimore
Chisholm-Ryder Co. of Pa., Hanover, Pa.
Consolidated Products Co., 15 Park Row, N. Y. (Used)
J. L. Ferguson Co., Joliet, Ill.
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Hornney & Co., 420 Lexington Ave., N. Y.
Houchin Machinery Co., Hawthorne, N. J.
Johnson Automatic Sealer Co., Battle Creek, Mich.
R. A. Jones & Co., Covington, Ky.
Karl Kiefer Machine Corp., Hoboken, N. J.
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago (Used) Newman Tallow & Soap Machy. Co., 1051 W. 35th St., Chicago (Used)
Perl Mach. Mfg. Co., 68 Jay St., Bklyn. 1, N. Y. (Tubes)
Pneumatic Scale Corp., North Quincy, Mass.
F. B. Redington Co., 112 S. Sangamon St., Chicago
Standard-Knapp Div., Portland, Conn.
Stokes & Smith Co., 4915 Summerdale Ave., Philadelphia Triangle Package Machinery Co., 6633 W. Diversey Blvd., Chicago Van Buren Mach. Co., 730 Grand St., Bklyn. 11 Weigh Right Automatic Scale Co., Joliet, Ill.

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Technical bulletin: SEQUESTRENE (22pp)

Technical bulletin: Effect of Sequestrene on Soap Detergency

Reprint: Organic sequestering agents: Their use in soap products (Soap & Sanitary Chemicals, 24:57)

*U. S. Patents-2,130,505 and 2,240,957



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SEQUESTERING AGENTS (Contd.)

Blockson Chem. Co., Joliet, Ill.
Carbide & Carbon Chemicals, 30 E. 42nd St., N. Y. 17
General Dyestuff Corp., 435 Hudson St., N. Y.
Monsanto Chem. Co., St. Louis 4
Quaker Chem. Prods. Co., Conshohocken, Pa.
Refined Prods. Corp., Lyndhurst, N. J.
Rumford Div.—Heyden Chem Corp., Rumford 16, R. I.
Solvay Sales Div., Allied Chemical & Dye Corp., 40
Rector St., N. Y. 6
Westvaco Chem. Div., Food Machy. & Chem. Corp.,
415 Lexington Ave., N. Y. 17
Wyandotte Chemicals Corp., Wyandotte, Mich.

SESQUICARBONATE OF SODA (for Bath Salts, etc.), (see Sodium Sesquicarbonate)

SHAMPOO BASE and LIQUID (SOAP BASE)

Ampion Corp., 4-88 47th Ave., L. I. City, N. Y.
Analab Labs., 285 Franklin St., Boston 10
Antiseptol Co., 5524 Northwest Highway, Chicago
Armour Soap Wks., 1355 W. 31st St., Chicago
Banner Chemical Prods., 60 Elm St., Newark
G. Barr & Co., 1132 W. 37th St., Chicago 9
Baum's Castorine Co., 200 Mathew St., Rome, N. Y.
Borne Scrymser Co., 632 S. Front St., Elizabeth, N. J.
Boston Chemical Industries, 64 E. Brookline St., Boston
Buckingham Wax Co., Van Dam St. & Borden Ave.,
L. I. City. N. Y. L. I. City, N. Y. Carlstadt Chem. Co., Carlstadt, N. J. Chemical Mfg. & Dist. Co., Easton, Pa. Caristadt Cnem. Co., Caristadt, N. J.
Chemical Mfg. & Dist. Co., Easton, Pa.
Chemical Compounding Corp., 262 Huron St., Bklyn, N. Y.
Chem. Service of Balto., Howard & West Sts., Balto.
Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago
Clifton Chemical Co., 62 William St., N. Y.
James Counts Soap Co., 2nd and Washington Aves.,
St. Louis
Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia
Davies-Young Soap Co., Dayton, O.
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Eagle Soap Corp., Huntington, Ind.
J. Eavenson & Sons, Camden, N. J.
Emulsol Corp., 59 E. Madison St., Chicago
Essential Chemicals, 744 N. 4th St., Milwaukee
Fairfield Labs., Inc., 417 Cleveland Ave., Plainfield, N. J.
Fine Organics, Inc., 211 E. 19th St., N. Y. 3
Fuld Bros. 702 S. Wolfe St., Baltimore
Gaylord Chem. Co., 701 Woodswether Rd., Kansas City
James Good, Inc., 2116 Susquehanna Ave., Phila.
Hage Laboratories, Inc., 140th & Seeley Ave., Blue
Island, Ill.
Higley Chemical Co., Dubuque, Iowa Haag Laboratories, Inc., 140th & Seeley Ave., Blue Island. III.

Higley Chemical Co., Dubuque, Iowa
Hockwald Chem. Co., 135 Mississippi St., San Francisco R. M. Hollingshead Corp., Camden, N. J.
Harley Soap Co., Pierce & Orthodox Sts., Phila.
Arnold Hoffman & Co., 55 Canal St., Providence, R. I.
Hubman Supply Co., 225 N. 4th St., Columbus, O.
Hysan Prods. Co., 1600 Fontain St., Phila. 21
Kearny Mfg. Co., Kearny, N. J.
Kessler Chem. Co., 1600 Fontain St., Phila. 21
Kearny Mfg. Co., Kearny, N. J.
Kessler Chem. Co., State Rd., Phila. 35
Kranich Soap Co., 60 Richards St., Brooklyn
H. Krevit & Co., 73 Welton St., New Haven, Conn.
Lanair Chem. Corp., 236 W. North Ave., Chicago 10
Los Angeles Soap Co., 617 E. First St., Los Angeles
Manhattan Kreole Prods., 172 N. 10th St., Brooklyn
M. Michel & Co., 90 Broad St., N. Y.
Midland Labs., Dubuque, Ia.
Miranol Chem. Co., 16 Melville Pl., Irvington, N. J.
Napthole, Inc., 15 E. 26th St., N. Y.
Nopco Chem. Co., Harrison, N. J.
N. Y. Soap Co., 258 Third St., Brooklyn
Oil-Kraft, Inc., 3330 Beekman St., Cincinnati
Onyx Oil Chem. Co., Warren & Morris Sts., Jersey City 2
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Procter & Gamble Co., Cincinnati
Quaker Chem. Prods. Co., Conshohocken, Pa.
Refined Prods. Corp., Lyndhurst, N. J.
Theo. B. Robertson Prods. Co., 700 W. Division St.,
Chicago

SHAMPOO BASE and LIQUID (Contd.)

Robinson Wagner Co., 110 E. 42nd St., N. Y.
Rochester Germicide Co., 333 Hollenbeck St., Rochester
5, N. Y.
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.
Schaeffer Mfg. Co., 102 Barton St., St. Louis
Schmidt Soap Products Co., 236 W. North Ave., Chicago
Science Industries, 609-15 Geyer Ave., St. Louis
Sharples Chemicals, Inc., 123 S. Broad St., Phila. 9
E. B. Snyder Labs., 213 E. Harold St., Phila. 25
L. Sonneborn Sons, 300—4th Ave., N. Y. 10
John T. Stanley Co., 624 W. 30th St., N. Y.
Superior Soap Corp., 121 Nostrand Ave., Bklyn, N. Y.
Swift & Co., Chicago 9
Tech Soap Mfg. Co., S. Chicago Ave., & 73rd St., Chicago
Tesco Chem. Co., P. O. Box 4748, Atlanta
Thompson-Hayward Chem. Co., Kansas City, Mo.
Trio Chem. Wks., 341 Scholes St., Bklyn.
J. A. Tumbler Labs., 423 Hanover St., Baltimore
Ultra Chem. Wks., 24 Wood St., Paterson, N. J.
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
U. S. Industrial Chemicals, 60 E. 42 St., N. Y. 17
U. S. Sanitary Specialties Corp., 1003 S. California Blvd.,
Chicago 12
Universal Chem. Corp., 35 E. Market St., Akron, O.
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.
Warwick Wax Co., 10-10 44th Ave., L. I. C. 1, N. Y.
G. H. Wood & Co., Toronto, Canada.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago
Chas. W. Young & Co., 1247 N. 26th St., Phila.

SHAMPOOS, POWDER AND CAKE

Armour & Co., 1335 W. 31st St., Chicago
Arrow Laboratories, 236 W. North Ave., Chicago
Chicago Sanitary Prods., Co., 3100 S. Throop St., Chicago
Davies-Young Soap Co., Dayton, O.
Emulsol Corp., 59 E. Madison St., Chicago
Kranich Soap Co., 60 Richards St., Brooklyn
Lanair Chem. Corp., 236 W. North Ave., Chicago
Lightfoot Schultz Co., 1412 Park Ave., Hoboken, N. J.
North Coast Chem. & Soap Wks., Seattle, Wash.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Piatt & Smillie Chemicals, 2329 Pine St., St. Louis 3
John Powell & Co., 1 Park Ave., N. Y.
Procter & Gamble Co., Cincinnati
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.
Schmidt Soap Products Co., 236 W. North Ave., Chicago
Superior Soap Corp., 121 Nostrand Ave., Bklyn, N. Y.
Swift & Co., Chicago 9
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

SHAMPOOS, SOAPLESS

Alrose Chem. Co., Box 1294, Providence, R. I.
Analab Labs., 285 Franklin St., Boston 10
G. Barr & Co., 1132 W. 37th St., Chicago 9
Boston Chemical Industries, 64 E. Brookline St., Boston Carlstadt Chem. Co., Carlstadt, N. J.
Chem. Service Co. of Balto., Howard & West Sts., Balto. Chicago Sanitary Prods. Co., 3100 S. Throop St.,
Chicago 8
Davies-Young Soap Co., Dayton, O.
Emulsol Corp., 59 E. Madison St., Chicago
Essential Chems. Co., 744 N. 4th St., Milwaukee 3
Fairfield Labs., Inc., 417 Cleveland Ave., Plainfield, N. J.
Fuld Bros., 702 S. Wolfe St., Baltimore
Higley Chemical Co., Dubuque, Iowa
Hockwald Chem. Co., 135 Mississippi St., San Francisco
R. M. Hollingshead Corp., Camden, N. J.
Hysan Prods. Co., 932 W. 38th Place, Chicago
Imperial Prods. Co., 1600 Halpern St., Phila. 21
Kearny Mfg. Co., Kearny, N. J.
Los Angeles Soap Co., 617 E. First St., Los Angeles
M. Michel & Co., 90 Broad St., N. Y.
Miranol Chemical Co., 16 Melville Pl., Irvington, N. J.
Monsanto Chem. Co., 1700 S. 2nd St., St. Louis
Nopco Chem. Co., Harrison, N. J.
Onyx Oil & Chemical Co., Warren & Morris Sts.,
Jersey City 2
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis

Procter & Gamble Co., Cincinnati
Protean Chemical Corp., 156 Nassau St., N. Y. 7
Rohm & Haas Co., 222 W. Washington Sq., Phila.
Sherwood Refining Co., Englewood, N. J.
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
E. B. Snyder Labs., 2137 E. Harold St., Philadelphia
Stepan Chem. Co., 1353 N. Branch St., Chicago 22
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
U. S. Sanitary Spec. Corp., 1003 S. California Blvd.,
Chicago 12
Verona Chem. Co., 26 Verona Ave., Newark, N. J.

SHAVING CREAM (Soap and Brushless)

Analab Labs., 285 Franklin St., Boston 10
Cenol Co., 4250 N. Pulaski Ave., Chicago
Chicago Sanitary Prods. Co., 3100 S. Throop St.,
Chicago 8
Davies-Young Soap Co., Dayton 1. O.
Eagle Soap Corp., Huntington, Ind.
Lightfoot Schultz Co., 1412 Park Ave., Hoboken, N. J.
Procter & Gamble Co., Cincinnati
Schmidt Soap Products Co., 236 W. North Ave., Chicago
John T. Stanley Co., 642 W. 30th St., N. Y.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

SHAVING CREAM BASE

Antara Prods., 444 Madison Ave., N. Y. 22
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
W. C. Hardesty Co., 41 E. 42nd St., N. Y. 17
Kessler Chem. Co., State Rd., Phila. 35
Miranol Chemical Co., Irvington, N. J.
Refined Prods. Corp., Lyndhurst, N. J.
Robinson Wagner Co., 110 E. 42nd St., N. Y.
Schmidt Soap Products Co., 236 W. North Ave., Chicago
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

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Arrow Laboratories, 236 W. North Ave., Chicago Chicago Sanitary Prods. Co., 3100 S. Throop St., Chicago 8
Colgate-Palmolive-Peet Co., Jersey City, N. J.
J. Eavenson & Sons, Del. and Penn Sts., Camden, N. J.
Hewitt Soap Co., Dayton, O.
Lanair Chem. Corp., 236 W. North Ave., Chicago
Lightfoot Schultz Co., 1412 Park Ave., Hoboken, N. J.
Los Angeles Soap Co., Los Angeles
Procter & Gamble Co., Cincinnati
Schmidt Soap Products Co., 236 W. North Ave., Chicago
John T. Stanley Co., 642 W. 30th St., N. Y.
Allen B. Wrisley Co., 6801 W. 65th St., Chicago

SHEET SOAP (see Soap Paper)

SHIPPING CASES (see Boxes)

SHEEP DIPS (see Cattle Dips)

SHOE POLISH DAUBERS

Alba Cook Co., Jersey City, N. J.

American Cork Specialty Co., 115 Sutton St., Bklyn.,
N. Y.

Applicator Brush Co., 87 Frankfort St., N. Y.

Applicator Co., 1512 Atlantic Ave., Bklyn., N. Y.

Armstrong Cork Co., Lancaster, Pa.

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SIFTING EQUIPMENT (see Screens)

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SILICATE OF SODA (see Sodium Silicate)

SILICO FLUORIDES (see Sodium Silicofluoride)

SLABBERS (see Soap Machinery)

SOAP BARK and EXTRACT (see Saponin)

SOAP BOOKS (see Soap Paper)

SOAP, CASTILE (see Castile Soap)

SOAP, CHIP (see Chip Soap)

SOAP COLORS (See Colors)

SOAP CUTTERS (see Soap Machinery)

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American Dispenser Co., 115 E. 23rd St., N. Y. 10
Antiseptol Co., 5524 Northwest Highway, Chicago
Bobrick Mfg. Corp., 1839 Blake Ave., Los Angeles 39
Chemical Service Co. of Baltimore, Balto. 30
Century Vitreous Enamel Co., 6641 S. Narragansett
Ave., Chicago
Clifton Chemical Co., 62 William St., N. Y.
Eagle Soap Corp., Huntington, Ind.
Fuld Bros., 702 S. Wolfe St., Baltimore
Garnet Chem. Corp., 911 N. Lumber St., Allentown, Pa.
L. E. Hicks & Son, 705 S. Grove Ave., Oak Park, Ill.
Hockwald Chem. Co., 135 Mississippi St., San Francisco
Hysan Prods. Co., 932 W. 38th Place, Chicago
Imperial Brass Mfg. Co., 1200 W. Harrison St., Chicago
Moore Bros. Co., 100 Warren St., N. Y.

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DEWAXED FLAKE
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SOAP DISPENSERS (Powder)

Ace Dispenser Co., 269 E. Genesee St., Buffalo, N. Y. Ampion Corp., 4-88 47th Ave., L. I. City, N. Y. American Dispenser Co., 115 E. 23rd St., N. Y. 10 Bobrick Mfg. Corp., 1839 Blake Ave., Los Angeles 39 Century Vitreous Enamel Co., 6641 S. Narragansett Ave., Chicago
Chemical Service Co. of Baltimore, Balto. 30
Clifton Chemical Co., 62 William St., N. Y. Federal Tool Corp., 3600 W. Pratt Blvd., Chicago 45 Fuld Bros., 702 S. Wolfe St., Baltimore
General Mfg. & Engineering Co., 2700 N. Karlov Ave., Chicago 39
L. E. Hicks & Son, 105 S. Grove Ave., Oak Park, Ill. Hockwald Chem. Co., 135 Mississippi St., San Francisco Hysan Prods. Co., 932 W. 38th Place, Chicago Imperial Brass Mfg. Co., 1200 W. Harrison St., Chicago Moore Bros. Co., 100 Warren St., N. Y.
National Soap Dispenser Co., 10210 La Salle Ave., Los Angeles 47 (Paste)
Packwood Mfg. Co., St. Louis
Palmer Fixture Co., Waukesha, Wisc.
Presto Mfg. Co., 770 Cromwell Ave., St. Paul, Minn. Skotch Prods. Corp., 2710 Detroit Ave., Cleveland E. B. Snyder Labs., 2137 E. Harold St., Philadelphia Sugar Beet Prods. Co., Saginaw, Mich. Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C. U. S. Sanitary Specialties Corp., 1003 S. California Blvd., Chicago 12

G. H. Wood & Co., Toronto, Ont., Canada Vasco Products Co., Elmira, N. Y.

SOAP DISPENSING SYSTEMS (Multi-unit with Tanks)

Ampion Corp., 4-88 47th Ave., L. I. City, N. Y.
Antiseptol Co., 5524 Northwest Highway, Chicago
American Dispenser Co., 115 E. 23rd St., N. Y. 10
Bobrick Mfg. Corp., 1839 Blake Ave., Los Angeles 39
Clifton Chemical Co., 62 William St., N. Y.
Eagle Soap Corp., Huntington, Ind.
Hockwald Chem. Co., 135 Mississippi St., San Francisco
R. M. Hollingshead Corp., Camden, N. J.
Imperial Brass Mfg. Co., 1200 W. Harrison St., Chicago
Hysan Prods. Co., 932 W. 38th Place, Chicago
Moore Bros. Co., 100 Warren St., N. Y.
Palmer Fixture Co., Waukesha, Wis.
Uncle Sam Chemical Co., 575 W. 131st St., N. Y. 27
U. S. Sanitary Specialties Corp., 1003 S. California Blvd.,
Chicago 12
West Disinfecting Co., Long Island City, N. Y.
G. H. Wood & Co., Toronto, Ont., Canada

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SOAP FIGURES (see Novelty Soaps)

SOAP, FLAKE (see Chip Soap)

SOAP FRAMES (see Frames)

SOAP KETTLES (see Kettles)

SOAP, LINSEED OIL (see Potash Soaps)

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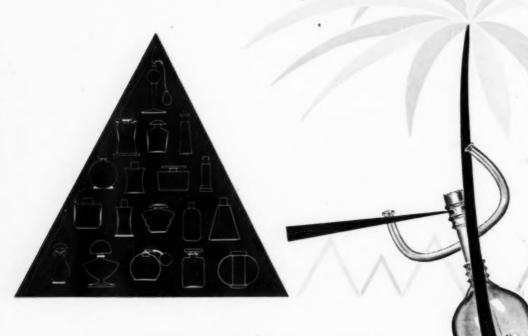
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Huber Machine Co., 259—46th St., Brooklyn
Industrial Process Engineers, 8 Lister Ave., Newark
5, N. J.
J. M. Lehmann Co., Lyndhurst, N. J.
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago
H. K. Porter Co., 49th and Harrison Sts., Pittsburgh
Read Machy. Div., York, Pa.
Sharp Bros., 201 Orient St., Bayonne, N. J. (Cutters)
Henry Simon, Ltd., Cheadle Heath, Stockport, England
Vickers-Armstrong, Ltd., Broadway, London, England

SOAP MILLS

Buhler Bros., 611 W. 43 St., N. Y. 18
J. H. Day Co., Inc., Cincinnati, O.
Houchin Machy. Co., Hawthorne, N. J.
Kent Mach. Wks., 37 Gold St., Bklyn. 1
J. M. Lehmann Co., Lyndhurst, N. J.
Newman Tallow & Soap Machy. Co., 1051 W. 35th St.,
Chicago

Charles Ross & Son Co., 148 Classon Ave., Bklyn. 5 Troy Engine & Mach. Co., Troy, Pa.

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Charles F. Hubbs & Co., 383 Lafayette St., N. Y. Moore Bros. Co., 100 Warren St., N. Y. Rosefelt Sale Builders, 740 N. Plankinton Ave., Milwaukee, Wisc. Velso Products Co., Ottumwa, Iowa

SOAP PERFUMES

Albert Albek, Inc., 3573 Hayden Ave., Culver City, Calif. Allondon, Inc., 912 Broadway, N. Y.

American British Chemical Supplies, Inc., 180 Madison Ave., N. Y.

Aromatic Products, Inc., 15 E. 30th St., N. Y.

Aroscent, Inc., Main & Chestnut Sts., Dobbs Ferry, N. Y.

Berje Prods. Co., 616 W. 44th St., N. Y. 18

Bush Aromatics, Inc., 136 Liberty St., New York

Centflor Mfg. Co., 243 W. 67th St., N. Y.

Ph. Chaleyer, Inc., 160 E. 56th St., N. Y.

Ph. Chaleyer, Inc., 160 E. 56th St., N. Y.

Compagnie Parento, Croton-on-Hudson, N. Y.

Dodge & Olcott, Inc., 180 Varick St., N. Y.

P. R. Dreyer, Inc., 117½ W. 19th St., N. Y.

E. I. du Pont de Nemours & Co., Wilmington, Del.

Felton Chemical Co., 603 Johnston Ave., Brooklyn

Firmenich & Co., 250 W. 18th St., N. Y.

Florasynth Labs., 1513 Olmstead Ave., Bronx, N. Y.

Benj. French, Inc., 76 Ninth Ave., N. Y.

Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.

Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.

Gunning & Gunning, 601 W. 26th St., N. Y.

D. W. Hutchinson & Co., 162 Front St., N. Y.

Samuel Klein, 4 Hanover Sq., N. Y.

E. M. Laning Co., 433 Stuyvesant Ave., Irvington, N. J.

Lautier Fils, 321 Fifth Ave., N. Y.

Geo. Lueders & Co., 427 Washington St., N. Y.

Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y.

Monsanto Chem. Co., St. Louis 4

Naugatuck Aromatics, 254 Fourth Ave., N. Y.

Noville Essential Oil Co., 157 Cedar St., N. Y.

Noville Essential Oil Co., 157 Cedar St., N. Y.

Noville Essential Oil Co., 157 Cedar St., N. Y.

Perry Bros., Inc., 220 Flushing Ave., Brooklyn

Polak & Schwartz, Inc., 667 Washington St., N. Y.

Perry Bros., Inc., 220 Flushing Ave., Brooklyn

Polak's Frutal Works, 36-14 35th St., L. I. City, N. Y.

F. Ritter & Co., 4001 Goodwin Ave., Los Angeles 39

Henri Robert, Inc., 39 W. 60th St., N. Y.

Boundard Co., 912 Broadway, N. Y.

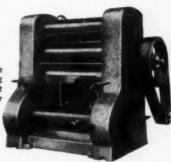




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Use SUPER PRIDE. Its super-rich detergent make-up makes tough floor cleaning jobs and greasy, heavy duty tasks easy going. For like all Stevens Soap Powders, SUPER PRIDE has one goal - to dissolve your cleaning problems!



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Sparhawk Co., Sparkill, N. Y.
Synfleur Scientific Labs., Monticello, N. Y.
Syntomatic Corp., 114 E. 32nd St., N. Y.
Tombarel Prods. Corp., 12 E. 22nd St., N. Y.
Ungerer & Co., 161 Sixth Ave., N. Y.
van Ameringen-Haebler, Inc., 521 W. 57th St., N. Y. 19
Van Dyk & Co., Belleville, N. J.
Albert Verley, Inc., 440 W. Superior St., Chicago
Verona Chem. Corp., 26 Verona Ave., Newark, N. J.

SOAP PLANTS (Continuous Process)

E. I. du Pont de Nemours & Co., Wilmington, Dela.
(Methylation Process)
Emery Industries, Carew Tower, Cincinnati, O. (High
Pressure Saponification Process)
Refining Unincorporated, 70 W. 40th St., N. Y. 18
Sharples Corp., 23rd & Westmoreland Sts., Phila. 40
(Process Employing Centrifugals for the Production of
Neat Soap)

SOAP PLANTS (Engineering)

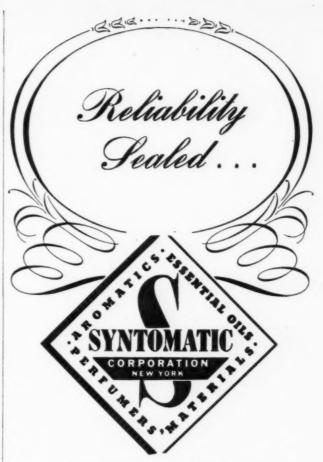
Alan Porter Lee, 150 Broadway, N. Y. J. W. McCutcheon, 475 Fifth Ave., N. Y. Project Construction Corp., 39 Broadway, N. Y. 6 Wurster & Sanger, 5201 S. Kenwood Ave., Chicago

SOAP POWDER MILLS

Abbe Engineering Co., 50 Church St., N. Y.
Consolidated Products Co., 15 Park Row, N. Y. (Used)
First Machy. Corp., 157 Hudson St., N. Y. (Used)
Houchin Machinery Co., Hawthorne, N. J.
Huber Machine Co., 359 46th St., Brooklyn, N. Y.
J. M. Lehmann Co., Lyndhurst, N. J.
Newman Tallow & Soap Mach. Co., 1051 W. 35th,
Chicago (Used)
Prater Pulverizing Co., 1825 55th Ave., Chicago
Henry Simon, Ltd., Cheadle Heath, Stockport, Eng.
Vickers-Armstrong, Ltd., Broadway, London, England

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Armour Soap Wks., 1355 W. 31st St., Chicago Chem. Mfg. & Dist., Co., Easton, Pa.
Colgate-Palmolive-Peet Co., Jersey City, N. J.
Conti Products Corp., 155 Varick St., N. Y.
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Eagle Soap Corp., Huntington, Ind.
J. Eavenson & Sons, Camden, N. J.
Enjay Co., 15 W. 51st St., N. Y.
Essential Chems. Co., 744 N. 4th St., Milwaukee 3
General Biochemicals, Inc., Chagrin Falls, Ohio
L. E. Hicks & Son, 507 S. Grove Ave., Oak Park, Ill.
Imperial Prods. Co., 1600 Fontain St., Phila.
Insto Co., 110 Center St., Los Angeles
Kranich Soap Co., 60 Richards St., Brooklyn, N. Y.
Lanair Chem. Corp., 236 W. North Ave., Chicago
Lightfoot Schultz Co., 1412 Park Ave., Hoboken, N. J.
Murro Chemical Co., Asheville, N. C.
Nopco Chemical Co., Asheville, N. C.
Nopco Chemical Co., Asheville, N. Y.
John Powell & Co., 50 Church St., N. Y.
John Powell & Co., 110 William St., N. Y.
Schmidt Soap Products Co., 236 W. North Ave., Chicago
Tennessee Soap Co., 1702 N. Thomas Ave., Memphis 1,
Tenn.
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.
G. H. Wood & Co., Toronto, Ont., Canada
Allen B. Wrisley Co., 6801 W. 56th St., Chicago



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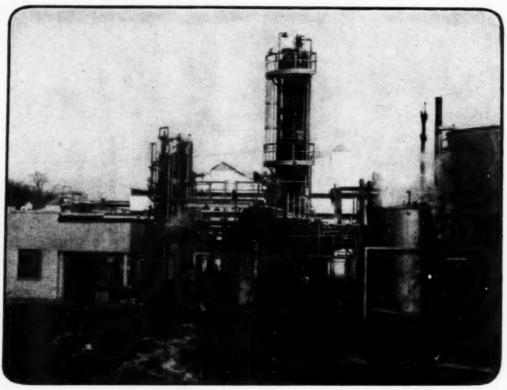
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Armour Soap Wks., 1355 W. 31st St., Chicago
Baums Castorine Co., 200 Mathew St., Rome, N. Y.
Beach Soap Co., Lawrence, Mass.
Chicago Sanitary Prods., Co., 3100 S. Throop Ave.,
Chicago Sanitary Prods., Co., 3100 S. Throop Ave.,
Chicago Sanitary Prods., Co., Easton, Pa.
Cudahy Packing Co., 221 N. La Salle St., Chicago
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Du Bois Soap Co., Cincinnati
J. Eavenson & Soos, Camden, N. J.
Essential Chemicals, 744 N. 4th St., Milwaukee
Gaylord Chem. Co., 701 Woodswether Rd., Kansas City
General Biochemicals, Inc., Chagrin Falls, Ohio
Hewit Soap Co., Dayton, O.
Hockwald Chemical Co., 135 Mississippi St.,
San Francisco
R. M. Hollingshead Corp., Camden, N. J.
Kamen Soap Prods., Co., Woolworth Bldg., N. Y.
Klix Chem. Co., 2460 Third St., San Francisco
H. Kohnstamm & Co., 91 Park Pl., N. Y.
Los Angeles Soap Co., 617 E. First St., Los Angeles
Geo. E. Marsh Co., 200 Broadway, Cambridge, Mass.
Miranol Chem. Co., 16 Melville Pl., Irvington, N. J.
Murro Chemical Co., Asheville, N. C.
Napthole, Inc., 15 E. 26th St., N. Y.
National Milling & Chem. Co., 4601 Nixon St., Phila. 27
Nopco Chemical Co., Asheville, N. C.
Napthole, Inc., 15 E. 26th St., N. Y.
North Coast Soap & Chem. Wks., Seattle, Wash.
Peck's Prods. Co., 610 E. Clarence Ave., St. Louis
Phipps Products Co., 30 Huntington Ave., Boston
Port Huron Detergent Co., Cincinnati
Theo. B. Robertson Prods. Co., 700 W. Division St.,
Chicago
Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J.
S. & S. Soap Co., 324 Barretto St., Bronx, N. Y.
Science Industries, 609-15 Geyer Ave., St. Louis
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
Stevens Soap Co., 1638 Monroe St., Brooklyn
Under Co., 51 Waverly St., Cambridge,
Mass.
M. Werk Co., St. Bernard, Cincinnati
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SOAP SHEETS (see Soap Paper)

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SOAP SLABBERS (see Soap Machinery)

SOAP STOCK (Boiled down cotton oil soap stock, etc.)

(see also Brokers and Dealers)

Archer-Daniels-Midland Co., Minneapolis 2
Armour & Co., 1355 W. 31st St., Chicago
Brode Corp., Memphis, Tenn.
Chemical Mfg. & Dist. Co., Easton, Pa.
T. G. Cooper & Co., Cedar and Venango Sts., Phila.
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Essential Chems. Co., 744 N. 4th St., Milwaukee 3
Durkee Famous Foods, Inc., 2670 Elston Ave., Chicago

Falk & Co., Pittsburgh 30
Wm. H. Floyd & Co., Los Angeles
H. Hentz & Co., 60 Beaver St., N. Y.
Portsmouth Cotton Oil Refining Co., Portsmouth, Va.
Procter & Gamble Co., Cincinnati, O.
Southern Cotton Oil Co., 21 West St., N. Y.
A. E. Staley Mfg. Co., Decatur, Ill.
Swift & Co., Chicago 9
Tennessee Soap Co., 1702 N. Thomas Ave., Memphis 1,
Tenn.
Welch, Holme & Clark Co., 439 West St., N. Y.

SOAP VALVES (see Soap Dispensing Systems)

SOAP, WHALE OIL (see Whale Oil Soap)

SOAP WRAPPING MACHY. (see Wrapping Mach.)

SOAPLESS DETERGENTS (see Detergents, Synthetic)

SOAPLESS SHAMPOOS (see Shampoos, Soapless)

SOAPS, AUTO (see Potash Soaps)

SOAPS, FLOATING (see Floating Soaps)

SOAPS, GRANULATED (see Laundry Soaps, Granulated)

SOAPS, LIQUID (see Potash Soaps)

SOAPS, MEDICINAL, CAKE (see Medicinal Soaps, Cake)

SOAPS, MOTTLED (see Mottled Soaps)

SOAPS, PINE SCRUB (see Pine Scrub Soaps)

SOAPS, SCOURING (see Scouring Soaps)

SOAPS, SCRUBBING (see Floor Scrub Soaps)

SOAPS, SURGICAL (see Potash Soaps)

SOAPS, TEXTILE (see Textile Soaps)

SODA ASH

(see also Dealers)

American Cyanamid & Chemical Corp., 30 Rockefeller Plaza, N. Y.
John H. Calo Co., 19 Rector St., N. Y. 6
John A. Chew, Inc., 60 E. 42nd St., N. Y. 17
Diamond Alkali Co., 300 Union Commerce Bldg.,
Cleveland 14
Dow Chemical Co., Midland, Mich.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Mathieson Chemical Corp., 10 Light St., Balto. 18
Niagara Alkali Co., 60 E. 42nd St., N. Y.
Penn Salt Mfg. Co., Widener Bldg., Phila.
Philipp Bros., 70 Pine St., N. Y.
Pittsburgh Plate Glass Co., Columbia Chemical Div.,
5th & Bellefield, Pittsburgh 13
Solvay Sales Div., Allied Chem. & Dye Corp., 40 Rector
St., N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Virginia-Carolina Chem. Corp., Richmond, Va.
Welch, Holme & Clark Co., 439 West St., N. Y.
Westvaco Chem. Div., Food Machy. & Chem. Corp.,
405 Lexington Ave., N. Y.
Wyandotte Chem. Corp., Wyandotte, Mich.

SODA (Modified)

(see also Dealers)

American Cyanamid & Chemicals Corp., 30 Rockefeller Plaza, N. Y. Diaraond Alkali Co., 300 Union Commerce Bldg., Cleveland 14

K

SODA (Modified) (Contd.)

E. I. du Pont de Nemours & Co., Wilmington, Del. Mathieson Chemical Corp., 10 Light St., Balto. 18 Pittsburgh Plate Glass Co., Columbia Chem. Div., Pittsburgh Plate Glass Co., Columbia Chem. Div., 5th & Bellefield, Pittsburgh 13
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Solvay Sales Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.
Stauffer Chem. Co., 420 Lexington Ave., N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Virginia-Carolina Chem. Corp., Richmond, Va.
Welch, Holme & Clark Co., 439 West St., N. Y.
Wyandotte Chem. Corp., Wyandotte, Mich.

SODIUM ACID SULFATE (see Nitre Cake)

SODIUM ALGINATE

Algin Corp. of America, 24 State St., N. Y. E. F. Drew & Co., 15 E. 26th St., N. Y. 10 Innis, Speiden & Co., 117 Liberty St., N. Y. 6 Kelco Co., 31 Nassau St., N. Y.

SODIUM ARSENITE

Chipman Chem. Co., Bound Brook, N. J.
Geigy Co., 89 Barclay St., New York
Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
Merck & Co., Rahway, N. J.
Penn Salt Mfg. Co., Widener Bldg., Phila.
Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
Shepherd Chem. Co., Cincinnati 12, O.
Stauffer Chem. Co., 420 Lexington Ave., N. Y.

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J. T. Baker Chem. Co., Phillipsburg, N. J. Dow Chemical Co., Midland, Mich. E. I. du Pont de Nemours & Co., Wilmington, N. J. Heyden Chem. Corp., 393 7th Ave., N. Y. Hooker Electrochem. Co., Niagara Falls, N. Y. Innis, Speiden & Co., 117 Liberty St., N. Y. 6

Merck & Co., Rahway, N. J.
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Seydel Chem. Co., 225 Mercer St., Jersey City, N. J.

SODIUM BICARBONATE

(see also Dealers)

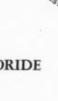
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Monsanto Chem. Co., 1800 S. 2nd St., St. Louis
Pennsylvania Salt Mfg. Co., Widener Bldg., Philadelphia
Pittsburgh Plate Glass Co., Columbia Chemical Div.,
5th & Bellefield, Pittsburgh 13
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St., N. Y.
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Welch, Holme & Clark Co., 439 West St., N. Y.
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(see also Dealers)

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SODIUM CARBONATE (see Soda Ash)

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Harshaw Chemical Co., 1945 E. 97th St., Cleveland 6
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SODIUM CHLORITE

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SODIUM FLUOSILICATE (see Sodium Silicofluoride)

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Shell Chemicals Corp., San Francisco
Skelly Oil Co., Kansas City
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U. S. Industrial Chem. Co., 60 E. 42nd St., N. Y.
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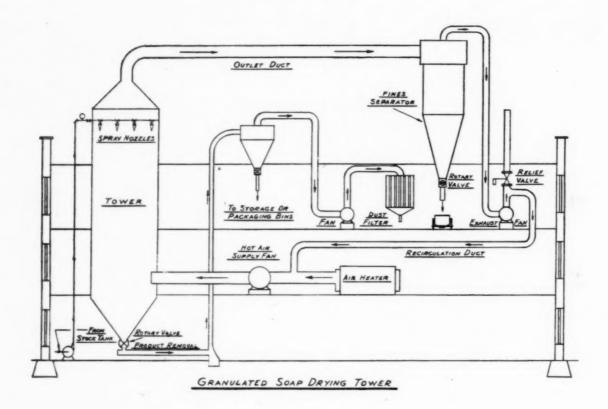
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(see also Dealers)

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Rosenthal Bercow Co., 25 E. 26th St., N. Y. 10
L. A. Salomon & Bro., 216 Pearl St.
A. F. Staley Mfg. Co., Decatur, Ill.
Welch, Holme & Clark Co., 439 West St., N. Y.

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Antara Prods., 444 Madison Ave., N. Y. 22
Atlas Powder Co., Wilmington, Del.
Cuprinol Inc., 7 Water St., Boston
E. I. du Pont de Nemours & Co., Wilmington, Del.
Glyco Prods. Co., 26 Court St., Brooklyn 2
R. W. Greeff & Co., 10 Rockefeller Plaza, N. Y.
W. C. Hardesty Co., 41 E. 42nd St., N. Y. (Glyceryl, Glycol)
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Arnold Hoffman & Co., 55 Canal St., Providence, R. I.
Hooker Electrochemical Co., Niagara Falls, N. Y.
Innis, Speiden & Co., 117 Liberty St., N. Y.
Kessler Chem. Co., State Rd., Phila. 35 (Glyceryl, Glycol)

Mallinckrodt Chem. Wks., St. Louis
Merck & Co., Rahway, N. J.
Metasap Chem. Co., First & Essex Sts., Harrison, N. J.
M. W. Parsons, Inc., 59 Beekman St., N. Y.
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Jos. Turner & Co., Ridgefield, N. J.
Chas. A. Wagner Co., 813 Callowhill St., Phila.
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Whittaker, Clark & Daniels, 260 W. Bway., N. Y.
Witco Chemical Co., 295 Madison Ave., N. Y.

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(see also Brokers and Dealers)

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American Cyanamid & Chem. Corp., 30 Rockefeller Plaza, N. Y.
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Armour Chem. Div., Armour & Co., 1355 W. 31st St., Chicago
Atlas Powder Co., Wilmington, Del.
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Celina Stearic Acid Co., Celina, Ohio
Century Stearic Acid Candle Wks., 41 E. 42nd St., N. Y.
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E. F. Drew & Co., 15 E. 26th St., N. Y. 10
Eastern Industries, Inc., 4300 Carew Tower, Cincinnati
General Mills, Chemical Div., 400 2nd Ave., Minneapolis 1
A. Gross & Co., 295 Madison Ave., N. Y.
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Merck & Co., Rahway, N. J.
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Swift & Co., Chicago 9
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(see also Brokers and Dealers)

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Werner G. Smith Co., 2191 W. 110th St., Cleveland
Louis Stern Sons, Inc., Produce Exch., N. Y.
Swift & Co., Union Stock Yards, Chicago
Welch, Holme & Clark Co., 439 West St., N. Y.
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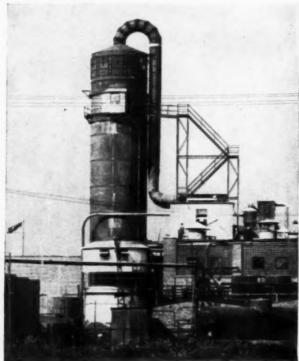
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General Mills, Chem. Div., 400 2nd Ave., Minneapolis 1
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M. Michel & Co., 90 Broad St., N. Y.

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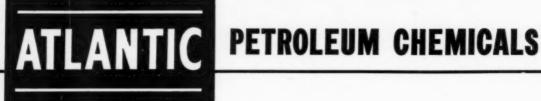
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Penetrants Softeners

Defoamers Textile chemicals Industrial specialties

Sequestrants

Quaternary ammonium compounds



ULTRAWETS

Atlantic Ultrawets are alkyl aryl type anionic surface-active agents with excellent sudsing and wetting properties, especially in hard water. Though mild and neutral, their pronounced surface activity makes them powerful detergents.

They are light amber to white in color and almost odorless. They are available in liquid, flake and bead form.

As flakes and beads, they are used primarily as constituents in dry-mixed compounds. As liquids, they are used in stock solutions for industrial processing, in compounding liquid products, and in preparing liquids or slurries for drum or spray drying.

Chemically the Ultrawets are stable in acid and alkaline media, and their low sensitivity to calcium, magnesium and other heavy metal ions makes them especially desirable in hard water. They are compatible with acid, alkaline and neutral salts, soaps, anionic and nonionic detergents and other materials commonly used in cleaning compounds. However, like all anionic detergents, they react and should not be used with cationic (quaternary ammonium) surface-active agents.

The Ultrawets have been used to advantage in many types of products and applications. Among them are: Dishwashing compounds, detergents for fine fabrics, scouring powders, paint cleaners, wallpaper removers, light and heavy duty household detergents, window cleaners, upholstery and rug shampoos, automobile and aircraft body cleaners, liquid soaps, shampoos, shaving creams, beard softeners, bubble bath preparations, bottle washing compounds, dairy cleaners, glass rinses, laundry detergents, metal cleaners, for wetting out, dye leveling, scouring, wool carbonizing assistant, and so on.

Currently available Ultrawets are:

	Appearance	% Solids	% Active Minimum	% Sodium Sul- fate Maximum	Pt. °F
Ultrawet 30E	Clear, pale yellow liquid	30	25.5	4.5	65
Ultrawet 30DS	Clear, pale yellow liquid	30	25.5	4.5	85
Ultrawet 35KX	Light amber slurry	35	31.5	3.5	90
Ultrawet DS	Light cream- colored flakes	100	85.0	15.0	_
Ultrawet K	Light cream- colored flakes	100	85.0	15.0	_
Ultrawet SK	White, free- flowing beads	100	35.0	65.0	_
Ultrawet 60L	Clear, pale yellow liquid	60	60.0	_	14

· Liquid Ultrawets are supplied in 480-lb. (55-gallon) steel drums and in tank cars; dry-flaked products in 200-.o. (50 gallon) fiber drums; and bead form products in 25-lb. 5-ply paper pags.

PERFORMANCE TESTS

	Concentration Wt. % Product	Distilled Water	300 ppm Hardness	Distille 2% NaOH	2%
Ultrawet 30E	0.15 0.50	28.1 27.6	27.3 27.0	27.7 27.3	27.
Ultrawet 30DS	0.15 0.50	29.2 28.1	27.4 27.0	27.2 27.3	27.
Ultrawet DS	0.05 0.15	28.9 28.4	27.6 27.5	27.5 27.3	27.5
Ultrawet 35KX	0.15 0.50	31.3 31.2	27.5 27.3	27.5	27.4
Ultrawet K	0.05 0.15	29.5 28.6	27.2 27.3	27.0 27.0	27.5
Ultrawet SK	0.05 0.15	31.7 28.2	27.8 27.4	27.3 27.0	27.1
Ultrawet 60L	0.05	30.0 27.7	27.5 27.4	=	=

	Concentration Wt. % Product	Distilled Water	300 ppm Hardness	2%	led Water 2% H H ₂ SO ₄
Ultrawet 30E	0.15	300+"	300+	155	185+
	0.50	14	11	5	5
Ultrawet 30D	\$ 0.15 0.50	110 7	105 7	63 6	48
Ultrawet DS	0.05	100	85	50	38
	0.15	8	8	6	4
Ultrawet 35K	X 0.15 0.50	22 2.7	25 3	74*	50° 12°
Ultrawet K	0.05	26	40	50	40
	0.15	5	5	12*	5
Ultrawet SK	0.05	300+	300 +	300 +	300 +
	0.15	19	21	40*	30
Ultrawet 60L	0.10	25 5.5	10	=	=

*Solution hazy, not completely miscible

	for Fo	am Determin	ation		
	Concentration Wt. % Product	Initially Disti	Med 5 Min.	300 p	pm 5 Min
Ultrawet 30E	0.15	195	170	65	55
	0.50	230	205	270	230
Ultrawet 30DS	0.15 0.50	200 245	170 215	135 275	110
Ultrawet DS	0.05	200	170	154	130
	0.15	240	215	270	240
Ultrawet 35KX	0.15	220	185	225	195
	0.50	260	230	265	230
Ultrawet K	0.05	220	190	200	165
	0.15	245	215	275	235
Ultrawet SK	0.05	205	175	50	45
	0.15	235	210	240	205
Ultrawet 60L	0.10	220	190	185	160
	0.25	250	220	260	225

Samples and further information on the Ultrawets will be supplied on request.

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SULFONATED OILS

American Cyanamid & Chem. Corp., 30 Rockefeller Plaza, N. Y.
Antara Prods., 444 Madison Ave., N. Y.
Atlantic Refining Co., 260 S. Broad St., Phila.
Carbide & Carbon Chem. Corp., 30 E. 42nd St., N. Y.
Carlstadt Chem. Co., Carlstadt, N. J.
Colloids, Inc., 395 Frelinghuysen Ave., Newark, N. J.
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
E. I. du Pont de Nemours & Co., Wilmington
Eastern Industries, 4300 Carew Tower, Cincinnati
General Dyestuff Corp., 435 Hudson St., N. Y.
Hercules Powder Co., 929 King St., Wilmington
Arnold Hoffman & Co., 55 Canal St., Providence, R. I.
Kali Mfg. Co., 1408 N. Front St., Philadelphia
Nopco Chem. Co., Harrison, N. J.
Onyx Oil & Chemical Co., Warren & Morris Sts.,
Jersey City 2
Rare Chemicals, Inc., 1st and Essex Sts., Harrison, N. J.
Salem Oil & Grease Co., Salem, Mass.
Sandoz Chemical Works, 61 Van Dam St., N. Y.
L. Sonneborn Sons, 300—4th Ave., N. Y. 10
Stepan Chem. Co., 1353 N. Branch St., Chicago
22
Swift & Co., Chicago 9
Arthur C. Trask Co., 4103 S. La Salle St., Chicago
Ultra Chem. Wks., 2 Wood St., Paterson, N. J.
Warwick Wax Co., 10-10 44th Ave., L. I. C. 1, N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y.
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Koppers Co., White Tar Div., Kearny, N. J. Reliable Chemical Co., Passaic, N. J.

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N. I. Malmstrom & Co., 147 Lombardy St., Brooklyn
M. Michel & Co., 90 Broad St., N. Y.
Nopco Chem. Co., Harrison, N. J.
Pfaltz & Bauer, 350 5th Ave., N. Y.
Pylam Products Co., 799 Greenwich St., N. Y.
Robinson Wagner Co., 110 E. 42nd St., N. Y.
Welch, Holme & Clark Co., 439 West St., N. Y.

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Savin Products Co., 1221 Dorchester Ave., Boston 25
E. B. Snyder Co., 2137 E. Harold St., Philadelphia
Jno. C. F. Snyder & Sons, Inc., 2304 N. 28th St., Phila.
Solshine Mfg. Co., 412—2nd St., Fall River, Mass.
Standard Chem. Co., 213 Jackson St., Houston, Tex.
Sweeping Compound Mnfrs. Co., 421 Broome St., N. Y.
Tesco Chem. Co., P. O. Box 4748, Atlanta
Texol Chem. Wks., 75 Ward St., Worcester, Mass.
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Chicago 12

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SYNTHETIC INSECTICIDE CONCENTRATES (see Insecticide Concentrates, Synthetic)

SYNTHETIC WAXES (see Waxes, Synthetic)

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Innis Speiden & Co., 117 Liberty St., N. Y.

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Los Angeles Talc Co., Los Angeles, Cal.

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Welch, Holme & Clark Co., Inc., 439 West St., N. Y.

Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.

Witco Chemical Co., 295 Madison Ave., N. Y.

Wyodak Chemical Co., 4600 E. 71st St., Cleveland

TALL OIL (TALLOL)

Arizona Chemical Co., 30 Rockefeller Plaza, New York Brunswick Pulp & Paper Co., Brunswick, Ga. John H. Calo Co., 19 Rector St., N. Y. 6

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Champion Paper & Fibre Co., Canton, N. C.
John A. Chew, Inc., 60 E. 42nd St., N. Y. 17
Concord Chemical Co., Public Ledger Bldg., Phila. 6
Continental Can Co., Hummel-Ross Division, Hopewell, Va.

T. G. Cooper & Co., Cedar & Venango Sts., Phila. 34
Falk & Co., Pittsburgh 30
Gaylord Container Corp., 111 North Fourth St., St. Louis
Gulf States Paper Co., Tuscaloosa, Ala.
National Southern Products Corp., 630 Fifth Avenue,
New York

Newport Industries, Inc., 230 Park Avenue, New York North Carolina Pulp Co., Camden, N. J. Werner G. Smith Co., 2191 W. 110th St., Cleveland 2 Southern Advance Bag & Paper Co., 38 Newbury St., Roston

Arthur C. Trask Co., 4103 S. LaSalle St., Chicago 9 Union Bag & Paper Corp., 52 Broadway, New York Welch, Holme & Clark Co., 439 West St., N. Y. 14 West Virginia Pulp & Paper Co., 230 Park Ave., New York

G. A. Wharry & Co., 95 Broad St., N. Y. 4

TALLOW and GREASE

(see also Brokers and Dealers)

Armour & Co., 1355 W. 31st St., Chicago
Belleville Rendering Co., Belleville, Ill.
Borne Scrymser Co., 632 S. Front St., Elizabeth, N. J.
Consolidated Rendering Co., 178 Atlantic Ave., Boston
Cudahy Packing Co., 111 W. Monroe St., Chicago
Darling & Co., 4201 S. Ashland Ave., Chicago
Eastern Industries, Inc., Ridgefield, N. J.
Falk & Co., Pittsburgh 30
Otto A. C. Hagen Corp., Public Ledger Bldg., Phila.
Independent Mfg. Co., Bridesburg P. O., Phila.
Long Island Soap Co., 29 Bridgewater St., Brooklyn
Louisville Butchers' Hide & Tallow Co., Louisville, Ky.
Newman Tallow & Soap Mach. Co., 1051 W. 35th, Chicago
Willibald Schaefer Co., Foot of Bremen Ave., St. Lovis
Werner G. Smith Co., 2191 W. 110th St., Cleveland
Swift & Co., Union Stock Yards, Chicago
Theobald Industries, Kearny, N. J.
Toledo Tallow Co., Toledo, Ohio
Waltham Tallow Co., Waltham, Mass.
Wayne Soap Co., Detroit
Welch, Holme & Clark Co., Inc., 439 West St., N. Y.
Wilson & Co., Union Stock Yards, Chicago
Wilson-Martin Co., Swanson St., Phila.

TALLOW CHIP SOAP (see Chip Soaps)

TALLOW OIL

(see also Brokers and Dealers)

Armour & Co., 1355 W. 31st St., Chicago
Consolidated Rendering Co., 40 N. Market St., Boston
Cudahy Packing Co., 111 W. Monroe St., Chicago
Eastern Industries, Inc., Ridgefield, N. J.
Griffin Chem. Co., 1000 16th St., San Francisco
W. C. Hardesty Co., 41 E. 42nd St., N. Y.
Independent Mfg. Co., Bridesburg, P. O., Phila.
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Union Stock Yards, Chicago
Toledo Tallow Co., Toledo, Ohio
Waltham Tallow Co., Waltham, Macs.
Welch, Holme & Clark Co., 439 West St., N. Y.
West Coast Fert. & Rendering Co., Los Angeles
Wilson & Co., Union Stock Yards, Chicago

TANKS (Glass Lined Mixing and Storage)

Allied Steel & Equipt. Co., Chester, N. J. Alsop Engineering Corp., 103 Green St., Milldale, Conn. Consolidated Products Co., 15 Park Row, N. Y. (Used)

TANKS (Glass Lined Mixing and Storage) (Contd.)

Edge Moor Iron Wks., 30 Rockefeller Plaza, N. Y. Filter Paper Co., 2464 S. Michigan Ave., Chicago First-Machy. Corp., 157 Hudson St., N. Y. (Used) Littleford Bros., 453 E. Pearl St., Cincinnati Metal Glass Products Corp., Belding, Mich. Mixing Equipment Co., 1067 Garson Ave., Rochester Newman Tallow & Soap Mach. Co., 1051 W. 35th, Chicago Pfaudler Co., 89 East Ave., Rochester, N. Y. H. K. Porter Co., 49th & Harrison Sts., Pittsburgh Geo. G. Rodgers Co., 225 W. 34th St., N. Y. Scientific Filter Co., 1 Franklin Sq., N. Y. Sprout, Waldron & Co., Muncy, Pa.

TANKS (for Liquid Soap Dispensing Systems)

Ampion Corp., 4-88—Forty-seventh Ave., L. I. City, N. Y. Antiseptol Co., 5524 Northwest Highway, Chicago Bobrick Mfg. Corp., 1839 Blake Ave., Los Angeles Brighton Copper Works, 2163 Western Ave., Cincinnati Clifton Chemical Co., 62 William St., N. Y. Eagle Soap Corp., Huntington, Ind.
Fuld Bros., Inc., 702 S. Wolfe St., Baltimore R. M. Hollingshead Corp., Camden, N. J. Imperial Brass Mfg. Co., 1200 W. Harrison St., Chicago Palmer Fixture Co., Waukesha, Wisc.
John Trageser Steam Copper Works, Grand Ave., Maspeth, L. I., N. Y.
Uncle Sam Chemical Co., 575 W. 131st St., N. Y. 27
U. S. Sanitary Spec. Corp., 1003 S. California Blvd., Chicago 12
West Disinfecting Co., Long Island City, N. Y.

TANKS (Steel Clad-Steel, etc., for Mixing, Storage, etc.)

Allied Steel & Equipt. Co., Chester, N. J. Alloy Prods. Corp., 221 Madison St., Waukesha, Wis. Alsop Engineering Corp., 103 Green St., Milldale, Conn. Atlas Steel Construction Co., Irvington, N. Y. S. F. Bowser & Co., Ft. Wayne, Ind. Consolidated Prods. Co., 15 Park Row, N. Y. (Used) J. H. Day Co., 1144 Harrison Ave., Cincinnati Edge Moor Iron Wks., Edge Moor, Del.
Filter Paper Co., 2464 S. Michigan Ave., Chicago
First Machy. Corp., 157 Hudson St., N. Y. (Used)
William Garrigue & Co., 9 S. Clinton St., Chicago General American Transportation Corp., 135 S. LaSalle St., Chicago Graver Tank & Mfg. Corp., 332 S. Michigan, Chicago Houchin Machinery Co., Hawthorne, N. J. Hudson Mfg. Co., 589 E. Illinois St., Chicago Carnegie-Illinois Steel Corp., 208 La Salle St., Chicago Industrial Process Engineers, 8 Lister Ave., Newark & Lancaster Iron Works, 564 S. Prince St., Lancaster, Pa. J. M. Lehmann Co., Lyndhurst, N. J. Littleford Bros., 453 E. Pearl St., Cincinnati Lukens Steel Corp., Coatesville, Pa. Mixing Equipment Co., 1067 Garson Ave., Rochester Newman Tallow & Soap Mach. Co., 1051 W. 35th St., Chicago (Used)
Patterson Foundry & Machine Co., East Liverpool, Ohio
Patterson-Kelley Co., East Stroudsburg, Pa.
Petroleum Iron Works, Sharon, Pa. Pfahler Cleland Co., Galion, O. Pfaudler Co., Rochester, N. Y. Pioneer Tank & Boiler Co., Tulsa, Okla. H. K. Porter Co., 49th & Harrison Sts. Pittsburgh Project Fabrication Corp., 39 Broadway, N. Y. 6 Project Fabrication Corp., 39 Broadway, N. 1. of Read Machy. Co., York, Pa. Geo. G. Rodgers Co., 225 W. 34th St., N. Y. Sprout, Waldron & Co., Muncy, Pa. Struthers-Wells Corp., Warren, Pa. John Trageser Steam Copper Works, Grand St., Maspeth, L. I., N. Y. Valloy, Evendry & Machine Works, 710 H St. Free Valloy, Evendry & Machine Works, 710 H St. Valley Foundry & Machine Works, 710 H St., Fresno 10,

TANKS (Wooden, Mixing, Storage, etc.)

Atlantic Tank & Barrel Co., North Bergen, N. J.
J. H. Day Co., 1144 Harrison Ave., Cincinnati
General Tank Corp., 30 Church St., N. Y.
Hauser-Stander Tank Co., Ivorydale, Cinn.
H. D. Hudson Mfg., 589 E. Illinois St., Chicago
Kalamazoo Tank & Silo Co., Kalamazoo, Mich.
New England Tank & Tower Co., Everett, Mass.
Pacific Tank & Pipe Co., 334 Market St., San Francisco
H. K. Porter Co., 49th & Harrison Sts., Pittsburgh
Read Machy. Co., York, Pa.
Sprout, Waldron & Co., Muncy, Pa.
Tippett & Wood, Phillipsburg, N. J.

TAR ACID OIL (see Coal Tar Raw Materials)

TAR ACIDS, High Boiling

American-British Chem. Supplies, Inc., 180 Madison Ave., N. Y.
Baird & McGuire, Inc., Holbrook, Mass.
Barrett Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y.
John H. Calo Co., 19 Rector St., N. Y. 6
Coal Tar Chemicals Corp., 420 Lexington Ave., N. Y.
Concord Chemical Co., Moorestown, N. J.
T. G. Cooper & Co., Cedar & Venango Sts., Phila. 34
E. I. du Pont de Nemours & Co., Wilmington, Del.
James Huggins & Son, 239 Medford St., Malden, Mass.
Koppers Co., Koppers Bldg., Pittsburgh, Pa.
Mirvale Chem. Co., Ltd., Mirfield, Yorks, England
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis
Neville Co., Pittsburgh
Reilly Tar & Chem. Co., Indianapolis
Riches-Nelson, Inc., 342 Madison Ave., N. Y. 17
Shell Oil Co., 50 W. 50th St., N. Y.
James Varley & Sons, 1200 Switzer Ave., St. Louis

TERPENYL ACETATE (see Aromatic Chemicals)

TERPINEOL

(see also Essential Oils)

Aromatic Products, Inc., 15 E. 30th St., N. Y.
Crosby Chemicals, Inc., De Ridder, La.
Dodge & Olcott, Inc., 180 Varick St., N. Y.
E. I. du Pont de Nemours & Co., Wilmington, Del.
Felton Chemical Co., 603 Johnson Ave., Brooklyn, N. Y.
Frirmenich & Co., 250 W. 18th St., N. Y.
Fritzsche Bros., 76—9th Ave., N. Y. 11
Givaudan-Delawanna, Inc., 330 W. 42nd St., N. Y.
Hercules Powder Co., 929 King St., Wilmington
Samuel Klein, 4 Hanover Sq., N. Y. 4
Magnus, Mabee & Reynard, 16 Desbrosses St., N. Y. 13
Polak's Frutal Wks., 36-14 35th St., L. I. C., N. Y.
Schimmel & Co., 601 W. 26th St., N. Y. 1
Ungerer & Co., 161 Ave. of Americas, N. Y. 13
van Ameringen-Haebler, Inc., 521 W. 57th St., N. Y.
Verona Chem. Co., 26 Verona Ave., Newark, N. J.

TETRACHLORETHYLENE (see Solvents, Organic)

TETRASODIUM PYROPHOSPHATE

American Cyanamid & Chem. Corp., 30 Rockefeller Plaza, N. Y.
Blockson Chemical Co., Joliet, Ill.
John A. Chew, Inc., 60 E. 42nd St., N. Y. 17
General Chemical Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y. 6
E. I. du Pont de Nemours & Co., Wilmington, Del.
A. R. Maas Chem. Co., South Gate, Calif.
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis
Rosenthal Bercow Co., 25 E. 26th St., N. Y.
Rumford Div.—Heyden Chem. Corp., Rumford 16, R. I.
Victor Chem. Wks., 141 W. Jackson Blvd., Chicago
Virginia-Carolina Chem. Corp., Richmond 5, Va.
Welch, Holme & Clark Co., 439 West St., N. Y.
Westvaco Chem. Div., Food Machy. & Chem. Corp., 405
Lexington Ave., N. Y.

TEXTILE SOAPS

Alrose Chem. Co., Box 1294, Providence, R. I.
American Soap & Washoline Co., Cohoes, N. Y.
Armour Soap Wks., 1355 W. 31st St., Chicago
Atlas Powder Co., Wilmington 99, Dela.
Beach Soap Co., Lawrence, Mass.
Carlstadt Chem. Co., Carlstadt, N. J.
Chemical Mfg. & Dist. Co., Easton, Pa.
Chem. Service Co. of Balto., Howard & West Sts., Balto.
Clarkson Co., 919 N. 9th St., Phila. 23
Clifton Chemical Co., 62 William St., N. Y.
Colgate-Palmolive-Peet Co., Jersey City, N. J. Clifton Chemical Co., 62 William St., N. Y.
Colgate-Palmolive-Peet Co., Jersey City, N. J.
Draper Soap Co., 171 Front St., Pawtucket, R. I.
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
E. I. du Pont de Nemours & Co., Wilmington, Del.
Eagle Soap Corp., Huntington, Ind.
J. Eavenson & Sons, Del. & Penn Sts., Camden, N. J.
Enterprise Mill Soap Wks., 2231 N. 12th St., Philadelphia
Essential Chem. Co., 744 N. 4th St., Milwaukee 3
General Biochemicals, Inc., Chagrin Falls, Ohio
Haag Labs., 140th & Seeley Ave., Blue Island, Ill.
Hockwald Chem. Co., 135 Mississippi St., San Francisco
Arnold Hoffman & Co., 55 Canal St., Providence, R. I.
Hysan Prods. Co., 932 W. 38th Place, Chicago
Iowa Soap Co., 810 Valley St., Burlington, Ia. Hysan Prods. Co., 932 W. 38th Place, Chicago
Iowa Soap Co., 810 Valley St., Burlington, Ia.
Kearny Mfg. Co., Kearny, N. J.
Kessler Chem. Co., State Rd., Phila. 35
Knox-All Corp., 1005 E. Sumner Ave., Indianapolis
H. Kohnstamm & Co., 91 Park Pl., N. Y.
Laurel Soap Mfg. Co., Tioga St., Phila.
Long Island Soap Co., Meeker Ave. & Bridgewater St.,
Brooklyn, N. Y.
Los Angeles Soap Co., Los Angeles, Cal.
M. Michel & Co., 90 Broad St., N. Y.
Miranol Chemical Co., 16 Mellville Pl., Irvington, N. J.
Murro Chemical Co., P. O. Box 185, Asheville, N. C.
Nopco Chem. Co., Harrison, N. J.
National Milling & Chem. Co., 4601 Nixon St., Phila. 27
National Milling & Chem. Co., 350 Fremont St., San Francisco
Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey
City 2 Onyx Oil & Chemical Co., Sov Warren & Morris Sts., Jersey City 2

Peck's Prods. Co., 610 E. Clarence Ave., St. Louis Procter & Gamble Co., Cincinnati Puritan Soap Co., 573 Lyell Ave., Rochester, N. Y. Quaker Chem. Prods. Co., Conshohocken, Pa. Refined Prods. Corp., Lyndhurst, N. J. Rome Soap Mfg. Co., N. Y. Sandoz Chemical Works, 61 Van Dam St., N. Y. Sanitary Soap Co., 104 Railroad Ave., Paterson, N. J. Scholler Bros., 3301 Amber St., Philadelphia Geo. E. Sherman Co., 153 Classon Ave., Brooklyn, N. Y. E. B. Snyder Labs., 2137 E. Harold St., Phila. 25 John T. Stanley Co., 642 W. 30th St., N. Y. Superior Soap Corp., 121 Nostrand Ave., Brooklyn Swift & Co., Union Stock Yards, Chicago Ultra Chem. Wks., Inc., 2 Wood St., Paterson, N. J. Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass. M. Werk Co., St. Bernard, Cincinnati Jacques Wolf & Co., Passaic, N. J. Chas. W. Young & Co., 1247 N. 26th St., Phila.

TEXTILE SODA (see Soda)

TEXTILE SPECIALTIES (Oils, Softeners, etc.)

Alrose Chem. Co., Box 1294, Providence, R. I.

American Cyanamid & Chem. Corp., 30 Rockefeller
Plaza, N. Y.

Arabol Mfg. Co., 110 E. 42nd St., N. Y. 17

Atlas Powder Co., Wilmington, Del.

Borne Scrymser Co., 632 S. Front St., Elizabeth, N. J.

Carbide & Carbon Chem. Corp., 30 E. 42nd St., N. Y.

Carlstadt Chem. Co., Carlstadt, N. J.

Chemical Service Co., of Baltimore, Balto. 30

Clarkson Co., 919 N. 9th St., Phila. 9

Commercial Solvents Corp., 17 E. 42nd St., N. Y.

Cowles Chemical Co., 7016 Euclid Ave. Cleveland Cowles Chemical Co., 7016 Euclid Ave., Cleveland J. O. Draper Co., Pawtucket, R. I. E. F. Drew & Co., 15 E. 26th St., N. Y. 10 E. I. du Pont de Nemours & Co., Wilmington, Del. Emery Industries, Inc., Carew Tower, Cincinnati Emulsol Corp., 59 E. Madison St., Chicago Enterprise Mill Soap Wks., 2231 N. 12th St., Philadelphia Essential Chems. Co., 744 N. 4th St., Milwaukee 3
Franklin Research Co., 5134 Lancaster Ave., Phila.
Geigy Co., 89 Barclay St., New York
General Dyestuff Corp., 435 Hudson St., N. Y.
Glyco Products Co., 26 Court St., Bklyn., N. Y.
W. C. Hardesty Co., 41 E. 42nd St., N. Y.
Hercules Powder Co., 929 King St., Wilmington, Del.
Arnold Hoffman & Co., 55 Canal St., Providence, R. I.
Kearny Mfg. Co., Kearny, N. J.
Knox-All Corp., 1005 E. Sumner Ave., Indianapolis
Laurel Soap Mfg. Co., Tioga St., Phila., Pa.
M. Michel & Co., 90 Broad St., N. Y.
Miranol Chemical Co., 16 Melville Pl., Irvington, N. J.
Monsanto Chem. Co., St. Louis 4
Murro Chemical Co., P. O. Box 185, Asheville, N. C.
Napthole, Inc., 15 E. 26th St., N. Y.
National Aniline Div., Allied Chem. & Dye Corp., 40
Rector St., N. Y. Rector St., N. Y.
Nopco Chem. Co., Harrison, N. J.
National Soap Co., 357 South 26th St., Tacoma, Wash.
National Starch Prods. Co., 820 Greenwich St., N. Y.
Onyx Oil & Chemical Co., Warren & Morris Sts., Jersey City 2
Pennsylvania Refining Co., Butler, Pa.
Protean Chemical Corp., 150 Nassau St., N. Y. 7
Publicker Industries, 1429 Walnut St., Phila. 2
Quaker Chem. Prods. Co., Conshohockon, Pa.
Rumford Div.—Heyden Chem. Corp., Rumford 16, R. I.
Sandoz Chemical Works, 61 Van Dam St., N. Y.
Scholler Bros., 3301 Amber St., Philadelphia
Geo. E. Sherman Co., 153 Classon Ave., Brooklyn, N. Y.
Skotch Prods. Corp., 2710 Detroit Ave., Cleveland
Swift & Co., Chicago 9
L. Sonneborn Sons. 300—4th Ave., N. Y. 10 L. Sonneborn Sons, 300—4th Ave., N. Y. 10 Ultra Chem. Works, Inc., 2 Wood St., Paterson, N. J. Washine-National-Sands, Inc., 37-02 Northern Blvd., Long Island City, N. Y. Woburn Chemical Corp., Harrison, N. J. Jacques Wolf & Co., Passaie, N. J. Chas. W. Young & Co., 1247 N. 26th St., Phila.

THALLIUM SULFATE

Foote Mineral Co., 1609 Summer St., Phila. Heckathorn & Co., Richmond, Calif. Merck & Co., Rahway, N. J. Pfaltz & Bauer, Inc., 350—5th Ave., N. Y. Rosenthal Bercow Co., 25 E. 26th St., N. Y.

THEATRE SPRAYS

Albert Albek, Inc., 3573 Haydon Ave., Culver City, Calif. A-M-R Chem. Co., 985 E. 35th St., Bklyn. 10
Antiseptol Co., 5524 Northwest Highway, Chicago Banner Chemical Prod. Corp., 60 Elm St., Newark, N. J. Baums Castorine Co., 200 Mathew St., Rome, N. Y. Brilco Labs., 1553-63rd St., Bklyn.
Cadet Laboratories, 10 Clarence St., Worcester 5, Mass. Cenol Co., 4250 Pulaski Ave., Chicago Chemical Compounding Corp., 262 Huron St., Brooklyn Chemical Mfg. & Dist. Co., Easton, Pa. Chem. Service Co. of Balto., Howard & West Sts., Balto. Chicago Sanitary Prods. Co., 3100 Throop St., Chicago Churchill Mfg. Co., Galesburg, Ill.
Clifton Chemical Co., 62 William St., N. Y.
Continental Car-Na-Var Corp., Brazil, Ind. Eagle Soap Corp., Huntington, Ind.
Elkay Products Corp., 323 W. 16th St., N. Y.
Fuld Bros., 702 S. Wolfe St., Baltimore
James Good, Inc., Kensington, Phila.
Gunning & Gunning, Inc., 601 W. 26th St., N. Y. 1
Higley Chemical Co., Dubuque, Iowa
Hockwald Chemical Co., 135 Mississippi St., San Francisco Hunt Mfg. Co., Lisbon Rd., Cleveland Hysan Prods. Co., 932 W. 38th Place, Chicago Imperial Prods. Co., 1600 Fontain St., Phila. Jansen Soap & Chemical Co., 324 Leavenworth St., San Francisco, Cal. E. M. Laning Co., 433 Stuyvesant Ave., Irvington, N. J. Lorenz Chemical Co., 135 N. 32nd Ave., Omaha Midland Labs., Dubuque, Ia. Peck's Prods. Co., 610 E. Clarence Ave., St. Louis Perry Bros., Inc., 220 Flushing Ave., Brooklyn

THEATRE SPRAYS (Contd.)

Theo. B. Robertson Prods. Co., 700 W. Division St., Chicago
Rochester Sanitary Prods. Co., 874 Seward St., Rochester, N. Y.
Science Industries, 609-15 Geyer Ave., St. Louis
Selig Co., 336 Marietta St., Atlanta, Ga.
E. B. Snyder Labs., 2137 E. Harold St., Philadelphia
Tech Soap Co., S. Chicago Ave., & 73rd St., Chicago
Tesco Chem. Co., P. O. Box 4748, Atlanta
Texol Chem. Wks., 75 Ward St., Worcester, Mass.
Thompson-Hayward Chem. Co., Kansas City 8, Mo.
Trio Chem. Wks., 341 Scholes St., Bklyn. 6
J. A. Tumbler Labs., 423 Hanover St., Baltimore
Uncle Sam Chemical Co., 573 W. 131st St., N. Y. C.
U. S. Sanitary Specialties Corp., 1003 S. California Blvd.,
Chicago 12
Victory Chem. Co., 148 Fairmount Ave., Phila.
G. H. Wood & Co., Toronto, Ont., Canada
World Spray Co., Inc., 5117 Central Ave., Los Angeles
York Chemical Co., 23 Dean St., Bklyn.

THERMOMETERS (see Instruments)

THYME OIL (see Essential Oils)

THYMOL (see Aromatic Chemicals)

TIGHT WRAPPING MACHINERY (see Wrapping Machinery)

TIN CRYSTALS (Stannous Chloride)

American Cyanamid & Chem. Corp., 30 Rockefeller Plaza, N. Y. J. T. Baker Chem. Co., Phillipsburg, N. J. E. I. du Pont de Nemours & Co., Wilmington, Del. General Chemical Div., Allied Chem. & Dye Corp., 40 Rector St., N. Y. Harshaw Chemical Co., 1945 E. 97th St., Cleveland & Metal & Thermit Corp., 120 Broadway, N. Y.

TITANIUM OXIDE (for toilet soaps)

Chemical & Pigment Co., St. Helena, Baltimore E. I. du Pont de Nemours & Co., Wilmington, Del Foote Mineral Co., 1609 Summer St., Phila. Titanium Pigment Co., 111 Broadway, N. Y. R. T. Vanderbilt Co., 230 Park Ave., N. Y. Whittaker, Clark & Daniels, 260 W. Bdway., N. Y. Witco Chemical Co., 295 Madison Ave., N. Y.

TOILET PAPER

A. P. W. Paper Co., Albany, N. Y. Brown Co., Portland, Me. Hoberg Paper & Fibre Co., Green Bay, Wisc. Scott Paper Co., Chester, Pa. Straubel Paper Co., Green Bay, Wis. Victoria Paper Mills Co., Fulton, N. Y. Wheeler Paper Co., 299 Madison Ave., N. Y.

TOILET PAPER HOLDERS

Palmer Fixture Co., Box 347, Waukesha, Wisc. A. P. W. Paper Co., Albany, N. Y. Scott Paper Co., Chester, Pa.

TOILET PREPARATIONS (Private Label)

(see also Bath Salts, Shampoos, etc.)

Allied Products, Inc., Suffern, N. Y.
G. Barr & Co., 1132 W. 37th St., Chicago 9
Corn King Co., Cedar Rapids, Ia.
Fuld Bros., 702 S. Wolfe St., Baltimore 3
R. Gesell, Inc., 200 W. Houston, N. Y.
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John T. Stanley Co., 642 W. 30th St., N. Y.
G. H. Wood & Co., Toronto, Ont., Canada

Allen B. Wrisley Co., 6801 W. 65th St., Chicago

TOILET SEAT COVERS

Lorco Industries, Clarke & Hornet Sts., Cincinnati Morton Mfg. Co., 5105 W. Lake St., Chicago National Towel Bendon Ltd., 12 Stewart St., San Francisco Protecto Prods. Co., 1450 W. Holt St., Ponoma, Calif. Sani-Gard Cover Co., 411 W. 5th St., Los Angeles

TOILET SOAP BASE (for Cakes)

Armour Soap Wks., 1355 W. 31st St., Chicago Colgate-Palmolive-Peet, Co., Jersey City, N. J. Hewitt Soap Co., Dayton, O. Los Angeles Soap Co., Los Angeles, Cal. Nopco Chem. Co., Harrison, N. J. Peck's Products, 610 E. Clarence Ave., St. Louis Procter & Gamble Co., Cincinnati Schmidt Soap Products Co., 236 W. North Ave. Schmidt Soap Products Co., 236 W. North Ave., Chicage Swift & Co., Chicago 9 John T. Stanley Co., 642 W. 30th St., N. Y. Allen B. Wrisley Co., 6801 W. 65th St., Chicago

TOILET SOAP MILLS (see Soap Machinery)

TOILET SOAPS (Private Label)

Armour Soap Wks., 1355 W. 31st St., Chicago
Baum's Castorine Co., Rome, N. Y.
Colgate-Palmolive-Peet Co., Jersey City, N. J.
Cudahy Packing Co., 221 N. LaSalle St., Chicago
Draper Soap Co., 171 Front St., Pawtucket, R. I.
J. Eavenson & Sons, Del & Penn Sts., Camden, N. J.
James Good Co., Susquehanna Ave., & Martin St., Phila.
Haag Labs., Inc., P. O. Box 114, Blue Island, Ill.
Hewitt Soap Co., Dayton, O.
Long Island Soap Co., 29 Bridgewater St., Brooklyn
Lightfoot Schultz Co., 1412 Park Ave., Hoboken, N. J.
Los Angeles Soap Co., Los Angeles, Cal.
National Soap Co., Box 1613, Tacoma, Wash.
Newell, Gutradt Co., 350 Fremont St., San Francisco
North Coast Soap & Chem. Wks., Seattle, Wash.
Peck's Products, 610 E. Clarence Ave., St. Louis
Procter & Gamble, Cincinnati
Reinitz Soap Corp., 46-44 11th St., Long Island City, N. Y.
Schmidt Soap Products Co., 236 W. North Ave., Chicago
E. B. Snyder Labs., 2137 E. Harold St., Phila. 25
John T. Stanley Co., 642 W. 30th St., N. Y.
Swift & Co., Chicago
Tech Soap Mfg. Co., S. Chicago Ave. & 73rd St., Chicago
Vliet Soap Co., 638 Monroe St., Brooklyn
Warren Soap Mfg. Co., 51 Waverly St., Cambridge, Mass.
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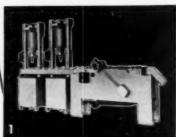
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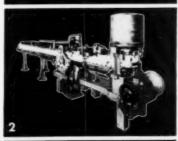
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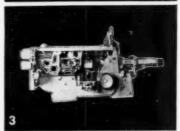
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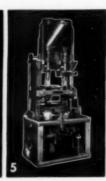
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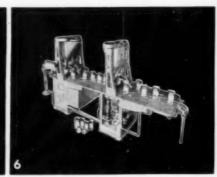














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J. L. Ferguson Co., Joliet, Ill.
B. F. Gump Co., 1325 S. Cicero Ave., Chicago
S. Howes Co., Silver Creek, N. Y.
Johnson Automatic Sealer Co., Ltd., Battle Creek, Mich.
Pneumatic Scale Corp., North Quincy, Mass.
Read Machy. Co., York, Pa.
F. J. Stokes Machine Co., Phila., Pa.
Stokes & Smith Co., 4915 Summerdale Ave., Phila.
Triangle Package Machinery Co., 6633 W. Diversey Blvd..
Chicago Chicago Vol-U-Meter Co., 710 Ohio St., Buffalo, N. Y. Weigh Right Automatic Scale Co., Joliet, Ill.

WETTING AGENTS (see also Detergents, Synthetic, and Sulfonated Oils)

Alrose Chem. Co., Box 1294, Providence, R. I. American-British Chem. Supplies, 180 Madison Ave., N. Y. 16 American-British Chem. Supplies, 180 Madison Ave., N. Y. 16
American Cyanamid & Chemical Corp., 30 Rockefeller Plaza, N. Y.
Antara Prods., 444 Madison Ave., N. Y.
Armour & Co., 1355 W. 31st St., Chicago Arabol Mfg. Co., 110 E. 42 St., N. Y. 17
Atlantic Refining Co., 260 S. Broad St., Philadelphia Atlas Powder Co., Wilmington, Del.
Borne Scrymser Co., 632 S. Front St., Elizabeth, N. J.
Calco Chemical Division, Bound Brook, N. J.
Carbide & Carbon Chemicals Corp., 30 E. 42nd St., N. Y.
Carlstadt Chem. Co., Carlstadt, N. J.
Chem. Mfg. & Dist. Co., Easton, Pa.
E. F. Drew & Co., 15 E. 26th St., N. Y. 10
E. I. du Pont de Nemours & Co., Wilmington, Del.
Emery Industries, 4300 Carew Tower, Cincinnati Emulsol Corp., 59 E. Madison Ave., Chicago
Essential Chems. Co., 744 N. 4th St., Milwaukee 3
General Dyestuff Corp., 435 Hudson St., N. Y.
Griffin Chem. Co., 1000 16th St., San Francisco
W. C. Hardesty Co., 41 E. 42nd St., N. Y.
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Kearny Mfg. Co., Kearny, N. J.
Kessler Chem. Co., State Rd., Phila. 35
Maywood Chem. Wks., Maywood, N. J.
M. Michel & Co., 90 Broad St., N. Y.
Miranol Chem. Co., 16 Melville Pl., Irvington, N. J.
Monsanto Chemical Co., 1700 S. 2nd St., St. Louis
Murro Chem. Co., P. O. Box 185, Asheville, N. C.
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Robinson Wagner Co., 110 E. 42nd St., N. Y.
Rohm & Haas Co., 222 W. Washington Sq., Phila.
E. B. Snyder Labs., 2137 E. Harold St., Philadelphia
Sharples Chemicals, Inc., 123 S. Broad St., Phila.
Solvay Sales Div., Allied Chem. & Dye Corp., 40 Rector L. Sonneborn Sons, 300 4th Ave., N. Y. Stanco Distributors, Inc., 216 W. 14th St., N. Y. Stepan Chem. Co., 1353 N. Branch St., Chicago 22

Synthetic Chemicals, Inc., 335 Boulevard, Paterson 4, N. J.
Ultra Chemical Works, 2 Wood St., Paterson, N. J.
Van Dyk & Co., Belleville, N. J.
Victor Chem. Works, 141 W. Jackson Blvd., Chicago
Virginia-Carolina Chem. Corp., Richmond, Va.
Jacques Wolfe & Co., Passaic, N. J.
Wyandotte Chemicals Corp., Wyandotte, Mich.

WHALE OIL

(see also Brokers and Dealers)

Falk & Co., Pittsburgh 30
F. A. Marsily & Co., 15 Whitehall St., N. Y.
Murray Oil Prods. Co., 21 West St., N. Y.
J. H. Redding Co., 17 Battery Pl., N. Y.
Werner G. Smith Co., 2191 W. 110th St., Cleveland
Arthur C. Trask Co., 4103 S. LaSalle St., Chicago
Welch, Holme & Clark Co., 439 West St., N. Y.
Wilbur-Ellis Co., 17 Battery Pl., N. Y.

WHALE OIL SOAPS

(see also Fish Oil Soaps)

Crystal Soap & Chem. Co., 6300 State Rd., Philadelphia James Good, Inc., 2116 E. Susquehanna Ave., Phila. Hockwald Chem. Co., 135 Mississippi St., San Francisco Newell, Gutradt Co., 350 Fremont St., San Francisco National Soap Co., Box 1613, Tacoma, Wash. Nopco Chem. Co., Harrison, N. J.

North Coast Chemical & Soap Works, Seattle, Wash. Peck's Prods. Co., 610 E. Clarence Ave., St. Louis Procter & Gamble Co., Cincinnati Theo. B. Robertson Prods. Co., 700 W. Division St., Chicago

Werner G. Smith Co., 2191 W. 110th St., Cleveland

WHITE MINERAL OILS

Atlantic Refining Co., 260 S. Broad St., Philadelphia Elgo Trading Corp., 220 Broadway, N. Y. 7
Oil States Pet. Co., 233 Broadway, N. Y. Pennsylvania Refining Co., Butler, Pa.
Petroleum Specialties, Inc., 400 Madison Ave., N. Y. Rosenthal Bercow Co., 25 E. 26th St., N. Y. Sherwood Refining Co., Englewood, N. J. Werner G. Smith Co., 2191 W. 110th St., Cleveland L. Sonneborn Sons, 300 4th Ave., N. Y. 10
Standard Oil Co. (Calif.), 225 Bush St., San Francisco Standard Oil Co. (Ind.), 910 S. Michigan Ave., Chicago F. W. Steadman Co., 59 Pearl St., N. Y. Welch, Holme & Clark Co., 439 West St., N. Y.

WHITENING AGENTS (see Optical Bleaches)

WHITING (see TALC)

WINDSHIELD CLEANERS, (see Glass and Windshield Cleaners)

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WOOL GREASE (see Lanolin)

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ZINC NAPHTHENATE

Baker & Collinson, Detroit
Cuprinol Inc., 7 Water St., Boston
General Petroleum Corp. of Calif., 108 W. 2nd St., Los
Angeles
Harshaw Chemical Co., 1945 E. 97th St., Cleveland
Nuodex Products Co., 312 Division St., Elizabeth, N. J.
G. A. Wharry & Co., 95 Broad St., N. Y. 4

ZINC OXIDE

American Cyanamid & Chemical Corp., 30 Rockefeller Plaza, N. Y. Anaconda Sales Co., E. Chicago, Ind. J. T. Baker Chem. Co., Phillipsburg, N. J. Chas. B. Chrystal Co., 53 Park Pl., N. Y E. I. du Pont de Nemours & Co., Wilmington, Del. Eagle-Picher Lead Co., 134 N. LaSalle St., Chicago Harshaw Chem. Co.. 1945 E. 97th St., Cleveland 6 Innis, Speiden & Co., 117 Liberty St., N. Y. Mallinckrodt Chemical Works, St. Louis, Mo. Merck & Co., Rahway, N. J. Monsanto Chemical Co., 1700 S. 2nd St., St. Louis New Jersey Zinc Co., 160 Front St., N. Y. Rohm & Haas Co., 222 W. Washington Sq., Phila. Rosenthal Bercow Co., 25 E. 26th St., N. Y. L. A. Salomon & Bro., 216 Pearl St., N. Y. Western, Zinc Oxide Co., Leadville, Col. G. A. Wharry & Co., 95 Broad St., N. Y. 4 Whittaker, Clark & Daniels, 260 W. Broadway, N. Y.



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Perfuming Material Specifications

Specifications and Standards Prepared By The Essential Oil Association for Several Important Essential Oils

BOOK OF SPECIFICATIONS & STANDARDS NOTES

Descriptive Characteristics: The statements concerning descriptive characteristics given in the individual monographs are not intended as standards or tests for purity.

Specific Gravity: Unless otherwise 15° C.

specified the figure 15° C. is used as the

basis for the specifications and standards that follow. A correction factor of .0007 must therefore be applied for each degree.

Optical Rotation: The figures given in the monographs are at room temperature approximately 20° C.

Refractive Index: The figures given are at room temperature approximately 20° C. unless otherwise specified.

Solubility: The figure given in the monographs are at 25° C. unless otherwise specified.

Mineral Oil: The mineral oil used in the solubility definition has a viscosity at 100° C. of

65

Solvents: The solubility in fixed and volatile oils, and in such solvents as mineral oil, benzyl benzoate, glycerine and propylene glycol appearing in the monographs are listed, for the sake of uniformity, in alphabetical order.

GENERAL TESTS:
-Determination of Esters

Place the quantity of sample mentioned in each separate monograph, in a tared, 125-cc, Erlenmeyer flask, and weigh it accurately. Add 25-cc of half-normal alcoholic potassium hydroxide, connect the flask with a reflux condenser, and boil the mixture on a water bath for exactly one (1) hour, unless otherwise specified. Allow the mixture to cool, and titrate the excess of alkali with half normal sulfuric acid, using 10 drops of phenolphthalein T.S. as the indicator. Calculate as prescribed in each individual monograph.

B—Determination of Total

Place 10-cc of the sample in an acetylization flask of 100-cc capacity and add 10-cc of acetic anhydride and 1 Gm. of anhydrous sodium acetate. Boil the mixture gently for exactly one (1) hour,

cool, disconnect the flask from the condenser, transfer the mixture to a small separator, rinsing the acetylization flask with three successive, 5-cc portions of warm distilled water, and add the rinsings to the separator. When the liquids have completely separated, reject the aqueous layer, and wash the remaining oil with successive portions of sodium carbonate T.S., diluted with an equal volume of distilled water, until the last washing is alkaline to two (2) drops of phenolphthalein T.S.

Dry the resulting oil with anhydrous sodium sulfate and filter. Transfer the quantity of the dry acetylized oil mentioned in each separate monograph, to a tared, 100-cc, Erlenmeyer flask, note its exact weight, add 25-cc of half-normal alcoholic potassium hydroxide, connect the flask with a reflux condenser, and boil the mixture on a water bath for exactly one (1) hour.

Allow the mixture to cool, and titrate the excess of alkali with half-normal sulfuric acid using 10 drops of phenolphthalein T.S. as the indicator. Calculate the per cent of the total alcohols as outlined in each individual monograph.

C-Determination of Linalool

Dimethyl Aniline—Acetyl Chloride Method

10-cc of linalool or essential oil containing linalool, previously dried with sodium sulfate, is introduced into a 125-cc g.s. Erlenmeyer flask cooled with ice and water. To the cooled oil is added 20-cc dimethyl aniline (mono-methyl free) and the contents thoroughly mixed, then 8-cc acetyl chloride (reagent grade) and 5-cc of acetic anhydride are added, the anhydride serving as a solvent to prevent crystallization of the reaction mass. The mixture is cooled for a few minutes and permitted to stand at room temperature for 1/2 hour after which time the flask is immersed in a water bath maintained at 40° C. ± 1° for three hours. At the end of this time the acetylated oil is washed three times with 75-cc of ice water, then with successive washes of 25-cc of 5% sulfuric acid until the separated acid layer fails to liberate any dimethyl aniline with an excess of caustic. After removal of the dimethyl aniline, the acetylated oil is washed with 10-cc of 10% sodium carbonate and washed neutral with water.

The oil is separated, dried over anhy-

drous sodium sulfate and the ester value determined in the usual manner. The linalool content can thus be obtained directly from saponification tables or by substitution in the following formula:

% Linalcol = ec N/2 KOH x 154.14 20 (wt. sample—cc N/2 KOH x 0.021)

As this test is further to be used for other oils containing linalool, besides linalool itself, a correction factor is necessary with oils containing significant amount of esters. For such oils, the following standard formula is recommended:

% Total Linalool = A x 77.07 x (1—(E x .0021))

B—(A x 0.021)

where A = cc half-normal alkali required for saponification.

where B = weight of sample.

where E = per cent of esters calculated as linalyl acetate in the original oil.

The test is not applicable to all tertiary alcohols, but only to linalool and linalool containing oils.

D-Hydroxylamine Method for Aldehydes and Ketones

Preparation of Hydroxylamine solution: Triturate 0.1. Gm. of bromophenol blue with 3-cc of twentieth-normal sodium hydroxide. When solution is complete, dilute to 25-cc with distilled water. Dissolve 20 Gm. of hydroxylamine hydrochloride in 40-cc of distilled water, dilute to 400-cc with alcohol, add with stirring 300-cc of half-normal alcoholic potassium hydroxide and 2.5-cc of the bromophenol blue solution, and filter the mixture.

ASSAY METHOD: Add 75-cc of Hydroxylamine solution prepared as above to W gm. (see Note 1.) (accurately weighed of substance to be tested) and mix thoroughly.

For Aldehydes: Allow to stand at room temperature for 15 minutes.

For Ketones: Reflux gently for one hour using a water condenser or an air condenser at least 30 inches long, Cool to room temperature. (See Note 2.)

Titrate to the greenish-yellow end point of Bromophenol Blue using one-half normal hydrochloric acid. Perform a blank determination using 75-cc of the hydroxylamine solution. Subtract the num-

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ber of cc of half-normal hydrochloric acid used in the titration of the sample from the number of cc used in the blank.

> $N \times .05 M$ % Aldehyde or Ketone = W

where N is difference in cc of 0.5 N HCL between blank and sample obtained above.

M is molecular weight of aldehyde or ketone in terms of which results are to be calculated.

W is weight of sample used.

Note 1: The weight of sample W should be such that the cc of Hydrochloric Acid required for the titration of the flask containing the sample is slightly more than half the cc required to titrate the blank. This weight W will be given under each individual monograph, based on the use of relatively fresh hydroxylamine solution which will give a blank titration of over 30-cc of one-half normal Hydrochloric Acid. The solution has a tendency to lose strength on standing more than about 10 days.

Note 2: Some aldehydes or ketones have been found to require longer standing or heating. In such cases the change will be noted under the individual mono-

Note 3: The value of the factor .05 M in the above formula for calculation of percentage is given under the individual monographs.

E-Determination of Acid Value

Dissolve approximately 10 gms. of the sample, accurately weighed, in 50 cc. of alcohol (previously neutralized to phenolphthalein with N/10 sodium hydroxide). Add 1 cc. of a 1% alcoholic phenolphthalein solution and titrate N/10 sodium hydroxide until the solution remains faintly pink after 30 seconds of shaking. The cc of N/10 alkali required to neutralize the sample multiplied by 5.6 and divided by the weight of sample expressed in grams, indicates the Acid Value of the sample taken.

F-Determination of **Evaporation Residue**

Place the quantity of sample specified in the individual monograph in a tarred 100 cc. glass evaporating dish, previously heated on a steam bath and cooled to room temperature in a desiccator and weigh it accurately. Heat the evaporating dish containing the oil on a steam bath for the length of time specified in the individual monograph. Allow the dish and contents to cool to room temperature in a desiccator and weigh accurately. Determine the weight of the residue and ex-press as a percentage of the oil originally taken.

G-Determination of **Chlorinated Compounds**

At the end of a copper wire bend a strip of 20 mesh copper gauze 1.5 cm. wide and 5 cm. long. Place the strip in the nonluminous flame of the Bunsen Burner un-

til it glows without imparting a green color. Cool the gauze and repeatedly ignite it until an oxide coating has formed. To apply the test, cool the gauze and add 2 drops of the sample by means of a medicine dropper, permitting it to burn in the air. Again cool and add 2 more drops of the test material and burn as before. Continue the procedure until six drops have been ignited. When completed, if the gauze is held in the outer edge of the burner to a height of about 4 cm., the flame should be free of even a transient green color.

H-DETERMINATION of: Congealing Point

A Pyrex test tube approximately 18-20 mm. internal diameter is filled 1/3 full with the liquid or melted solid under test. The tube and its contents are immersed in a suitable bath until the temperature of the sample is super-cooled to approximately 5°C. below the expected congealing point. The tube and its contents are then suspended inside of a test tube 25-30 mm. internal diameter which has been fitted with a cork ring or washer to re-ceive the smaller tube. The jacketed tube is placed in a bath maintained at 5°C. below the congealing point. The proper range MCA thermometer is inserted in the liquid and the liquid stirred to produce solidification. If needed, solidification can be induced by seeding. The stirring is continued until the determination has been completed. The temperature of the test material should be observed constantly. The maximum constant temperature obtained is the congealing point.

Specifications and Standards For OIL OF SAGE DALMATIAN

Oil of Sage Dalmatian is distilled from Salvia officinalis L. It should not be confused with sage oils distilled from other botanicals; e.g. Oil of Spanish Sage, Oil of Clary Sage, Oil of American Sagebrush. The true Dalmatian Sage Oil is produced on the Dalmatian Islands and the adjacent coast of the Adriatic

Early in the commercial development of this product, there occurred two types of oil; "high-test" "low test" oils which were distinguishable by their ketone contents. Today only the "high-test" oils are commercially available since this type is preferred by the trade and is generally considered to be of superior quality.

The best grade of Dalmatian Sage Oil contains not less than 50% of ketones, calculated as thujone. The specifications which follow have been written for oils of this quality.

Botanical Nomenclature

Salvia officinalis, L.

Preparation

Obtained by steam distillation of the . partially dried leaves.

Physical & Chemical Constants

Color and Appearance: A yellowish or greenish-yellow liquid having a warm camphoraceous and thujone-like odor and

Specific Gravity at 25°/25°C.: 0.903-0.925

Optical Rotation: +2° to +29°.

Refractive Index at 20°C .: 1.4570-

Saponification Value: 6 to 20.

Proceed as directed for the determination of esters. (See A) using approximately 5.0 grams of the oil, accurately weighed. Calculate the saponification value by the following formula:

 $A \times 28.05$ S.V. = ___ B

Where A is the number of cc. of 0.5 N alcoholic potassium hydroxide solution consumed in the saponification and B is the weight (in grams) of sample used.

Ester Value after Acetylation: 25 to 60.

Proceed as directed for the determination of total alcohols (See B) using approximately 2.5 grams of the acetylated oil for the subsequent saponification. Calculate the ester value after acetylation by the following formula:

 $A \times 28.05$ E.V.A.A. = -В

Where A is the number of cc. of 0.5 N alcoholic potassium hydroxide solution consumed in the saponification of the acetylated oil, and B is the weight (in grams) of the sample of acetylated oil

Ketone Content: Not less than 50%, calculated as thujone.

Proceed as directed for the determination of aldehydes and ketones. (See Determinations E.O.A. 1D) using approximately 1 gram of the oil accurately weighed. Calculate the ketone content, as thujone, by the following formula:

A × 7.61 Percentage of Thujone = -

Where A is the difference in cc. of the 0.5 N hydrochloric acid required in titrating the blank and in titrating the determination, and B is the weight (in grams) of sample used.

Solubility in Alcohol: Soluble in 1 volume of 80% alcohol.

Descriptive Characteristics

Solubility:

Benzyl Benzoate: Soluble in all pro-

Fixed Oils: Soluble in all proportions in most fixed oils.

Glycerine: Practically insoluble.

Mineral Oil: Soluble, although frequently the solutions are opalescent.
Propylene Glycol: Slightly soluble.

Stability:

Relatively stable to dilute alkali and weak organic acids.

Containers

Should be shipped in glass or tin-lined containers. Good quality galvanized containers are suitable when long storage is not contemplated.

Storage

Store preferably in tight, full containers, in a cool place protected from light.



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Specifications and Standards for Oil Spike

Other General Names

Oil Lavender Spike.

Oil Lavender Spanish.

Oil Spanish Spike.

Oil Aspic.

Botanical Nomenclature

Lavandula latifolia, Vill. (Lavandula Spica D.C.), Family: LABIATAE.

Preparation

By steam distillation of the flowers.

Physical and Chemical Constants

Color and appearance: Oil Spike is a pale yellow to yellow liquid, having a camphoraceous, lavender-like odor.

Specific Gravity @ 15° C.: 0.900—0.915. Optical Rotation:—5° to + 5°. Refractive Index 20° C.: 1.4630 to

1.4680.

Esters as Bornyl Acetate: 1.5 to 3.0%. Proceed as directed for the determination of esters, see A, using approximately 10 grams of Oil Spike, accurately weighed. The number of CC of half normal alcoholic potassium hydroxide consumed in the saponification, multiplied by 0.0981, indicates the number of grams of esters calculated as Bornyl Acetate (C10 H17 C4 H₃ O₂) in the oil taken for assay.

Total Alcohols as Borneol: 30-40%. Proceed as directed for the determination of total alcohols, Page B, using approximately 2.5 grams of the acetylized oil, accurately weighed, for the subsequent saponification. Calculate the per cent of total alcohols as Borneol by the follow-

ing formula: Per Cent of total Borneol (C10 H17 OH) in the oil tested

A x 7.712

 $x [1-(E \times 0.0021)]$ B-(A x 0.021)

A is the result obtained by subtracting the number of cc of half normal sulphuric acid required in the titration from the number of cc of half normal alcoholic potassium hydroxide originally taken.

B is the weight of acetylized oil taken, and E is the per cent of esters calculated as Bornvl Acetate.

Solubility in Alcohol: Soluble in some dilution between 1 and 3 volumes of 70% alcohol, however, upon further dilution it frequently becomes hazy.

Descriptive Characteristics

Stability:

Alkali: Relatively stable to alkali, although some change takes place.

Acids: Fairly stable to weak acids.

Benzyl Benzoate: Soluble in all proportions.

Fixed Oils: Soluble in all proportions in most fixed oils.

Glycerin: Slightly soluble.

Mineral Oil: Usually forms cloudy solutions.

Propylene Glycol: Soluble in all proportions.

Containers

Should be shipped preferably in glass, tin-lined or aluminum containers. Good quality galvanized containers are suitable when long storage is not contemplated.

Storage

Store preferably in well stoppered full containers, in a cool place protected from

Hydroxycitronellal

C10H20O2 Mol. Wt. 172.26 CH₃ ... >C -Н ОН Н Н СН. Н C-C-C-C-C(Various other structures are suggested)

Preparation

Obtained by the hydration of citronellal. The basic citronellal used may be from any source such as the optically active variety from Java Citronella or the optically inactive variety from Eucalyptus Citriodora.

Physical and Chemical Constants

Color and appearance: Viscous colorless liquid having a sweet odor of the lily type.

Specific Gravity @ 15°C.: 0.925 to 0.930. Optical Rotation: Depends upon the optical activity of the raw material. When prepared from the Java type + 9 to + 10.5; when prepared from Eucalyptus Citriodora type + 0.5 to - 0.5.

Refractive Index @ 20°: 1.448-1.450. Hydroxycitronellal Content: Not less than 95%. (See D.)

Assay - Hydroxycitronellal determina-

Proceed as directed in the hydroxylamine method for aldehydes (see D) using approximately 1.3 gm. of sample, accurately weighed. The difference in the cc of N/2 HCl required for both titrations multiplied by 0.0861 indicates the weight in grams of Hydroxycitronellal in the sample taken for assay.

Solubility in Alcohol: Soluble in 11/2 and more volumes of 50% alcohol. Soluble in all proportions of 60% alcohol.

Bisulfite Test for non-aldehydic impurities: Add 9 cc of NaHSO₂ solution* to .5 cc Hydroxycitronellal. Shake vigorously for one minute. Clear solution should be obtained (terpenes). Solution should have no minty odor (isopulegol).

* (Bisulfite Solution-Prepare a fresh solution of 30% NaHSOa anhydrous by weight. To this add 4% of 10% Na2CO2 solution to cut down free SO₂. Solution to be filtered clear before use if neces-

Descriptive Characteristics

Stability:

Acids: Easily resinified by acids. Alkali: Easily resinified by strong alkali

Oxidation: Very readily oxidized by exposure to air.

Solubility: Benzyl Benzoate: Soluble in all proportions.

Diethyl Phthalate: Soluble in all pro-

Fixed Oils: Soluble in all proportions in most fixed oils.

Glycerin: Slightly soluble. Mineral Oil: Slightly soluble. Propylene glycol: Soluble in all proportions.

Water: Slightly soluble (app. 5%).

Containers

Should be shipped preferably in glass, tin-lined or aluminum containers. Galvanized containers not recommended.

Storage

Store preferably in well-stoppered, full containers in a cool place protected from

Specifications and Standards For

OIL LEMONGRASS

Other General Names:

There are basically two types of Lemongrass Oil commercially available: the East Indian and "West Indian" type oil.

The East Indian Oil is also known as Cochin, Native and British Indian Lemongrass Oil.

The "West Indian" type oil appears on the market designated according to geographic origin as Madagascar, Guatemala, Honduras or Florida Lemongrass Oil, etc.

Botanical Nomenclature:

East Indian Oil: Cymbopogon flexuosus (Stapf). Andropogon nardus var. flexuosus (Hack.).

"West Indian" type Oil: Cymbopogon citratus (Stapf). Andropogon nardus var. ceriferus (Hack.).

Preparation:

By steam distillation of the freshly cut and partially dried grasses.

Physical & Chemical Constants: East Indian Oil:

Color and Appearance: The East Indian Oil is generally dark yellow to light brown-red in color and has a pronounced heavy lemon-like odor.

Specific Gravity 15°/15° C. 0.900-

Optical Rotation -3° to +1°.

Refractive Index @ 20° C. 1.4830-

Citral Content:

A. Acid Sulfite Method-Not less than

Solubility-Solubility in 2 to 3 volumes of 70% alcohol, often with slight tur-

"West Indian" Type Oil:

Color and Appearance: The "West Indian" type Oil varies from light yellow



to light brown or orange. Its odor is lemon-like but of lighter character than the East Indian.

Specific Gravity 15°/15° C. 0.875-0.900. Optical Rotation —3° to +1°.

Refractive Index @ 20° C. 1.4830-1.4890.

Citral Content:

A. Acid Method-Not less than 75%.

Solubility—Yields cloudy solutions in 70, 80, 90 and 95% alcohol.

Assay

A. Acid Sulfite Method: Introduce foce of Lemongrass Oil into a 100cc. Cassia flask and add 75cc. of a 30% solution of sodium metabisulfite. Heat the mixture in a water bath to 85° and shake the flask intermittently for one-half to one hour. Then add sufficient bisulfite solution to raise the meniscus within the graduated portion of the flask. On cooling, the volume of insoluble oil expressed in per cent subtracted from 100 represents the citral content.

Descriptive Characteristics

Stability:

Alkali: Lemongrass oils slowly decompose in the presence of alkalis.

Acids: Strong inorganic acids tend to polymerize the oil. Weak organic acids have less effect.

Solubility:

Propylene Glycol: The East Indian oil is soluble in all proportions of propylene glycol with slight turbidity or cloudiness.

The "West Indian" type oil has limited solubility in propylene glycol (about 10% accompanied by cloudiness).

Mineral Oil: Soluble with cloudiness or turbidity.

Fixed Oils: Soluble in most fixed oils. Benzyl Benzoate: Soluble in all proportions, generally with slight turbidity.

Diethyl Phthalate: Soluble in all proportions with slight turbidity.

Glycerin: Slightly soluble.

Containers

Should be shipped preferably in glass, aluminum or tin-lined containers. Good quality galvanized containers are suitable, provided long storage is not contemplated.

Storage

Store in full containers and avoid exposure to light and excessive heat.

Specifications and Standards for VETIVER OIL General Names

The oil of commerce is characterized by its geographical origin.

Vetiver Oil Java—Vetiver Oil Reunion (Bourbon)—Vetiver Oil Haiti.

Botanical Nomenclature Vetiveria Zizanioides Stapf. Andropogon Muricatus Retz.

Preparation

By steam distillation of partially dried roots.

Physical and Chemical Constants

Odor: Aromatic—somewhat woody. Color and Appearance: Brownish to a reddish-brown viscous liquid.

reddish-brown viscous liquid.

Specific Gravity @ 15° C: 0.990 to 1.040.

Optical Rotation: +15° to +45°.

Refractive Index @ 20° C: 1.5200 to 1.5280.

Solubility:

Soluble in 1 to 3 vols. of 80% alcohol, sometimes opalescent or slightly turbid upon further dilution.

Descriptive Characteristics

Stability:

Acids: Fairly stable to dilute acids but unstable in the presence of strong acids. Alkali: Fairly stable to weak alkali. Unstable to strong alkali.

Solubility:

Fixed Oils: Soluble in all proportions in most fixed oils.

Diethyl Phthalate: Soluble in all proportions.

Benzyl Benzoate: Soluble in all proportions.

Mineral Oil: Soluble with slight cloudiness.

Glycerin: Insoluble.

Propylene Glycol: Practically insoluble.

Saponification Value:

See Directions (see G.T.A.) using 5 grams of oil, accurately weighed. The number of cc of N/2 alkali consumed in the saponification multiplied by 28.05 and divided by the weight of sample taken equals Saponification Value,

Ester Value After Acetylation:

110 to 165.

See Directions (see G.T.A.) using 2 grams of acetylized oil accurately weighed for saponification. The number of cc of N/2 alkali consumed in the saponification multiplied by 28.05 and divided by the weight of sample taken equals Ester Value after Acetylation.

Containers

Should be shipped preferably in glass or tin-lined containers. Good quality galvanized containers are suitable when long storage is not contemplated.

Storage

Store preferably in tight, full containers in a cool place, protected from light.

Specifications and Standards for OIL OF PATCHOULY

Botanical Nomenclature Pogostemon Patchouly, Pellet.

Preparation

Direct steam distillation of the dried

Physical and Chemical Constants

Color and Appearance—a yellow-green-

ish brown, or brown liquid.

Specific gravity @ 15° C: .950 to .995.

Optical Rotation: —48° to —68°.

Refractive Index a 20° C: 1.5070 to 1.5200.

Solubility—Soluble in 10 vol. of 90% alcohol, usually with opalescence.

Acid Value-not more than 5.

Proceed as directed for the determination of acid value.

(See Determination G.T.E.)

Saponification No.—Not more than 18. Proceed as directed for the determination of esters. (See Determination G.T. A.) using 5 grams of the oil accurately weighed.

Descriptive Characteristics

Stability:

Stable to weak alkalis and acids. Solubility:

Benzyl Benzoate: Soluble.

Fixed Oils: Soluble in all proportions in most fixed oils.

Glycerin: Practically insoluble. Mineral Oil: Soluble with haziness. Propylene Glycol: Partially soluble.

Containers

Should be shipped preferably in glass or tin-lined containers. Good quality galvanized containers are suitable provided long storage is not contemplated.

Storage

Store in tight, full containers in a cool place, protected from light.

Specifications and Standards for PHENYL ETHYL ALCOHOL

C#H10O

Mol. Wt. 122.16

Preparation
Phenyl Ethyl Alcohol can be prepared from Benzene, Ethylene Oxide, Aluminum Chloride and Hydrochloric Acid; also, from Phenyl Magnesium Bromide and Ethylene Chlorohydrin or from Chlorobenzene, Magnesium and Ethylene Chlorohydrin or Ethylene Oxide.

Physical and Chemical Constants
Color, Appearance and Odor—Colorless, viscous liquid with a rose odor.

Specific Gravity @ 25° C. 1.017 to 1.020.
Refractive Index @ 20° C. 1.5310 to 1.5330.

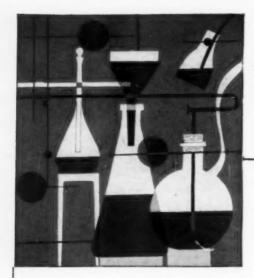
Halogens—Negative. Proceed as directed for the determination of Chlorinated Compounds (See Determinations G.T.G.).

Water Solubility—2.0 cc. should be clearly soluble in 100 cc. of distilled water at 25° C. after thorough shaking.

Descriptive Characteristics
A satisfactory quality of Phenyl Ethyl
Alcohol should not reveal any chemical
off-odor when two cc. are stirred up in
20 cc. of ice cold odorless water.

Solubility:
Benzyl Benzoate: Very soluble.
Diethyl Phthalate: Very soluble.
Fixed Oils: Very soluble.
Alcohol: Very soluble.
Mineral Oil: Slightly soluble.
Propylene Glycol: Very soluble.
Glycerin: Very soluble.
Water: Sparingly soluble.

Stability:
Acids and Alkalis: Very stable in closed containers. Quite stable with mild alkali or acid at ordinary temperatures and conditions as encountered in the preparation and storage of cosmetics and soaps.



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Containers

Should be shipped in tin-lined or galvanized drums or in glass.

Storage

Should be stored in tight containers reasonably well protected against direct

Specifications and Standards

TERPINYL ACETATE

C10H17.O2C2H3

Mol. Wt.: 196.28

Preparation

Acetylation of terpineol.

Physical & Chemical Constants

Color and appearance: Colorless liquid having an odor suggestive of bergamot and lavender.

Specific gravity at 15° C .: 0.958 to 0.968

Optical rotation: between -0°30' and +0°30'.

Refractive index @ 20° C.: 1.4640 to 1.4660.

Ester Content: 97-100% (calculated as

terpinyl acetate).

Method: Proceed as directed for the determination of esters, (see A), using approximately 1.0 g of sample accurately weighed. Reflux the mixture on a water bath for exactly two hours. The number of cc. of half normal potassium hydroxide consumed in the saponification, multi-plied by 0.0981 indicates the number of grams of ester calculated as Terpinyl Acetate in the sample taken for assay.

Solubility in alcohol: Soluble in 5 or more volumes of 70% alcohol.

Descriptive Characteristics Solubility:

Fixed Oils: soluble in all proportions. Diethyl Phthalate: soluble in all pro-

portions. Benzyl Benzoate: soluble in all proportions.

Mineral Oil: soluble in all proportions. Water: slightly soluble, approx. 0.1%. Glycerin: slightly soluble, approx. 0.1%.

Stability:

Acids: Not very stable; strong acids transform terpinyl acetate into terpenic products.

Alkali: Stable in neutral and weak alkaline media; strong alkalis saponify the ester.

Oxidation: Stable.

Containers

Terpinyl acetate should be shipped in glass, tin, aluminum, galvanized iron.

Specifications and Standards for TERPINEOL

C10H18O

Mol. Wt.: 154.24

Formula: Mixture of Isomers

Preparation

Obtained from terpin hydrate by splitting off the elements of water by chemical means.

Physical & Chemical Constants

Color and appearance: Colorless liquid, viscous at room temperature, having an odor of the lilac type.

Specific gravity @ 15° C: 0.936 to

Optical rotation: between -0°10' and +0°10'.

Congealing temperature: all products should crystallize when seeded at +2° C.
Boiling range: 214°-224° C.; 90% within 5° C.

Refractive index @ 20° C .: 1.4825-1.4850.

Solubility in alcohol: soluble in 2 and more volumes of 70% alcohol; 4 and more volumes of 60% alcohol, 8 and more volumes of 50% alcohol.

Descriptive Characteristics

Solubility:

Diethyl Phthalate: soluble in all proportions

Benzyl Benzoate: soluble in all proportions.

Mineral Oil: soluble in all proportions. Water: slightly soluble; approx. 0.5%. Water in Terpineol: slightly soluble:

approx. 5%. Glycerin: slightly soluble; approx. 0.5%.

Stability:

Acids: not stable; terpineol transformed into terpenic products.

Alkali: stable in neutral and moderately alkaline media.

Oxidation: relatively stable.

Containers

Terpineol should preferably be shipped in glass, tin, aluminum, galvanized iron,

Specifications and Standards for

HELIOTROPINE

Mol. Wt.: 150.13

Heliotropine, piperonal, piperonyl aldehyde, protocatechuic aldehyde methylene 3-4 methylene dioxybenzaldehyde. Grades: Perfumery grade.

Preparation

Oxidation of isosafrol.

Uses: Heliotropine is widely used in soap perfumery. Aids in the making of carnation, violet, lilac, sweet pea and muguet types. An indispensable base for all heliotrope perfumes and bouquets.

Physical & Chemical Constants

Color and appearance: Fine, white, lustrous crystals.

Odor: A sweet, fine, flowery note re-

sembling heliotrope, free of safrol byodors.

Congealing Point 35.° C. minimum. Melting Point: 35.5°-37° C.

Aldehyde content: 99.0% minimum calculated as Heliotropine.

Assav

Heliotropine Determinations

Proceed as directed in D, using approximately 1.5 gram sample, accurately weighed. Reflux gently for onehalf hour. The difference in the cc. of N/2 HCl required for both titrations multiplied by 0.0751 indicates the weight in grams of Heliotropine taken for assay.

Descriptive Characteristics

Stability

When stored at temperatures approximating its melting point, the product tends to fuse and discolor.

Acids: Stable to dilute acids at ordinary temperatures.

Alkali: Stable to dilute alkali at ordinary temperatures.

Oxidation: Relatively resistant to oxidations; oxidizes very slowly to piperonylic acid.

Solubility

Alcohol: soluble in 3 to 4 cc. of 70% alcohol.

Benzyl Benzoate: V.S.

Diethyl Phthalate: V.S.

Fixed Oils: F.S. in most fixed oils. Glycerin: Insol. (less than 1 part per

100) Mineral Oil (Carnation white): Sp. Sol.

Propylene Glycol: F.S.

Volatile Oils: F.S. to S. in most volatile oils.

Water: Insol. (less than 1 part per 100).

The figures given are at 25° C. unless otherwise noted. Relative cc. of solvent for 1 gram of Heliotropine.

Very soluble (V.S.): less than 1 cc. of solvent.

Free soluble (F.S.): from 1 to 10 parts of solvent.

Soluble (S): from 10 to 30 parts of solvent.

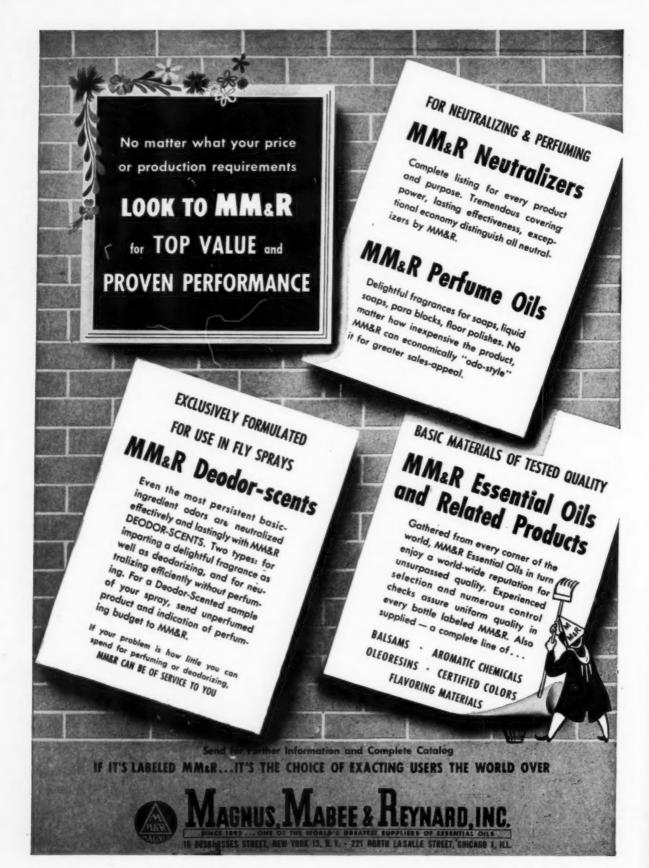
Sparingly soluble (Sp. Sol.) from 30 to 100 parts of solvent.

Containers

1 oz. to 200 lbs., usually packed in fibreboard or pressboard containers and wooden barrels.

Storage

Preserve Heliotropine in a cool, dry place protected from light.



Specifications and Standards for Copaiba Oil

Other General Names

Copaiva oil. Copaiva Balsam oil.

Preparation

Obtained by distillation of Copaiba Ralsam.

Physical and Chemical Constants

The oil is colorless, yellowish liquid having the characteristic odor of Balsam Copaiba and an aromatic, slightly bitter and pungent taste.

Specific Gravity @ 15° C.: 0.886 to 0.912.

Optical Rotation: -2° to -33°. Refractive Index @ 20° C .: 1.4930 to

Gurjun Oil Test:

Add 5 to 6 drops of sample to 10 cc glacial acetic acid containing 5 drops of nitric acid. When gurjun oil is present a purple violet color develops within two (2) minutes.

Descriptive Characteristics

Stability:

Alkali: Fairly stable. Acid: Fairly stable.

Solubility:

Benzyl Benzoate: Soluble in all propor-

Mineral Oil: Soluble in all proportions. Fixed Oils: Soluble in all proportions. Diethyl Phthalate: Soluble in all pro-

Propylene Glycol: Practically insoluble. Glycerine: Insoluble.

Alcohol: Usually soluble in an equal volume of absolute alcohol, but requires from 5 to 10 volumes of 95% alcohol for complete solution.

Containers

Should be shipped preferably in glass, tin-lined or aluminum containers. Good quality galvanized containers are suitable when long storage is not contemplated.

Storage

Store preferably in tight, full containers in a cool place protected from light.

Specifications and Standards for Oil Citronella Ceylon

Botanical Nomenclature

Andropogon Nardus Ceylon, de Jong. Cymbopogon Nardus Rendle, lena batu. Family: Gramineae.

Preparation

Direct steam distillation of the dried

Physical and Chemical Constants

Color and appearance-Yellow to yellowish brown liquid.

Specific Gravity @ 15° C .: -0.898 to 0.910.

Optical Rotation: -9° to -18°.

Refractive Index @ 20° C .: -1.4790 to

Solubility in Alcohol-Clearly soluble at some dilution between 1 and 2 volumes of 80% alcohol. When diluted to 10 volumes, the solution should remain clear or become not more than slightly opalescent with no separation of oil after standing overnight.

Mineral Oil (saturated hydrocarbons) -Negative.

Place 20 cc of fuming sulphuric acid, containing 15% free SOs in a graduated, narrow neck Babcock bottle, 50 cc capacity, cool in ice bath 10 minutes, keep bottle in ice bath and add 5 cc of Oil Citronella Ceylon dropwise at such a rate that the bottle remains cold. Incline the bottle and rotate continuously during the addition, which should require about 5 minutes. When no further reaction is apparent remove from ice bath, bringing slowly to room temperature with frequent cautious shaking. Wash down neck with 3 or 4 cc of fuming sulphuric acid.

When no further reaction is apparent on shaking, shake vigorously for 30 seconds. Place bottle in water bath and heat slowly to 60° C. with frequent agitation. (Caution is required, as escaping gas may force some solution from bottle.) Heat at 60°-65° C. for 15 minutes, shaking the contents carefully but vigorously 8-10 times during this period. Remove from bath and without cooling, carefully add sulphuric acid (Specific gravity about 1.84) until the bottle is about three-fourths full. Shake well. No material should adhere to stem and sides at this point; cool to room temperature, add sulphuric acid (Specific gravity about 1.84) until the level is about two-thirds up in neck of flask. Centrifuge 10 minutes at 1,200 revolutions per minute or stand over night and read, centrifuge an additional 10 minutes. Pure Oil Citronella Ceylon should have no readable separation.

Aldehyde Content

7% to 15% calculated as Citronellal. Proceed as directed in the hydroxyla-

mine method for alhehydes (see Determinations (G.T.D), using approxi-mately 5 grams of the oil, accurately weighed. The difference in the cc of N/2 HCL required for both titrations, multiplied by 0.07712, indicates the weight in grams of Citronellal in the sample taken for assay.

Total Alcohols

55% to 65% (calculated as Geraniol). Proceed as directed for the determination of total alcohols (see Determinations G.T.B). Observe the following modifications: 1. Use two (2) grams of anhydrous sodium acetate; 2. Immerse the acetylization flask in an oil bath to the level of the liquid in the flask; continue the acetylization for two (2) hours, keeping the bath between 155°-160° C.

Use approximately two (2) grams of

the dried acetylized oil, accurately weighed, for the subsequent saponification. Calculate the per cent of Geraniol by the following formula:

Per cent of total alcohols, calculated as Geraniol, in the oil tested =

A × 7.712

 $B-(A\times 0.021)$ A is the result obtained by subtracting the number of cc of half normal hydrochloric acid required in the titration from the number of cc of half normal alcoholic potassium hydroxide originally taken. B is the weight of acetylized oil taken.

Descriptive Characteristics

Stability:

Alkali: Relatively unstable in the presence of alkali.

Acids: Unstable, esterification takes place in the presence of some organic acids. Many strong inorganic acids cause decomposition.

Solubility:

Benzyl Benzoate: Soluble in all propor-

Fixed Oil: Soluble in all proportions in most fixed oils.

Glycerine: Practically insoluble. Mineral Oil: Usually forms cloudy solutions

Propylene Glycol: Soluble usually with opalescence or turbidity.

Containers

Should be shipped preferably in glass, tin-lined or aluminum containers. Good quality galvanized or clean black iron containers are suitable when long storage is not contemplated.

Storage

Store preferably in tight, full containers in a cool place protected from light.

Specifications and Standards for Citronella Oil-Java Type

Other General Names

The oil of commerce is generally characterized by the geographic origin, e.g., Java, Guatemala, Formosa, etc., and differs from the Ceylon oil in both composition and odor.

Botanical Nomenclature

Andropogon Nardus (L), Cymbopogon Nardus (Rendle).

Family: Gramineæ.

The grass used for production of the Java type oil is referred to as the "maha pengri" type, as distinguished from the "lena batu," which is used for the production of the Ceylon type oil.

Preparation

By direct steam distillation of the freshly cut or partially dried grasses.

Physical and Chemical Constants

Color and appearance-The Java type Citronella Oil is characterized by a light yellow to tan color, low viscosity, and pronounced aldehydic odor.

Specific Gravity 15°/15° C.: 0.883 to

Optical Rotation: -0° 30' to -6°.

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Refractive Index @ 20° C.: 1.4660 to 1.4745.

Total Aldehydes as Citronellal: 30% to 45%.

The aldehyde content of individual drums may show a wide variation; however, bulk shipments are generally required to meet an average minimum citronellal content of 35%.

Total Alcohols as Geraniol: 85% to 97%.

Solubility:

Clearly soluble at all dilutions between 1 and 2 volumes of 80% alcohol and may become opalescent on further dilution.

Assay:

Total Aldehydes as Citronellal:

Proceed as directed in the hydroxylamine method for aldehydes (see Determinations G.T. D), using approximately 2.5 grams of sample, accurately weighed. The difference in the cc of N/2 HCl required for both titrations multiplied by 0.07712 indicates the weight in grams of total aldeyhdes calculated as citronellal in the sample taken.

Assay :

Total Alcohols as Geraniol:

Proceed as directed for the determination of total alcohols (see Determination G.T. B), with the following modifications:

1. Use 2 grams of anhydrous sodium acetate for acetylation.

2. Reflux the resulting acetylation mixture for two hours.

Calculate the percentage of total alcohols as geraniol, employing the following

 $A \times 7.712$

% Total Alcohols = $\frac{}{B - (A \times 0.021)}$

A is the result obtained by subtracting the number of cc of half normal hydrochloric acid required in the titration from the number of cc of half normal alcoholic potassium hydroxide originally taken.

B is the weight of acetylized oil taken.

Descriptive Characteristics

Stability:

Alkali: Moderately stable to weak alkali at normal temperatures. Unstable in the presence of concentrated alkali at elevated temperatures.

Acids: Decomposes in the presence of mineral acids. Moderately stable to weak organic acids.

Solubility:

Soluble in all proportions with Benzyl Benzoate, Diethyl Phthalate and most fixed oils.

Soluble with cloudiness in mineral oil and Propylene Glycol.

Insoluble in Glycerine.

Containers

Should be shipped preferably in glass, tin-lined or aluminum containers. Good quality galvanized or black iron containers are suitable provided long storage is not contemplated.

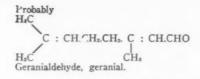
Storage

Store in tight, full containers in a cool place protected from light.

Specifications and Standards for CITRAL PURE

C10H10

Mol. Wt. 152.12



Preparation

Obtained by reaction with Sodium Sulphite or Bisulphite with further purification by distillation and chemical processes, or can also be prepared by the oxidation of the alcohols such as geraniol, nerol and linalool by means of chromic acid or other oxidizing substances.

Physical and Chemical Constants

Color and appearance—A mobile, pale yellow liquid having a strong lemon odor.

Specific Gravity @ 15° C.: 0.891 to 0.897.

Optical Rotation: Inactive.

C10H1:OH

Refractive Index @ 20° C.: 1.4860 to 1.4900.

Mineral Oil: All proportions. Propylene Glycol: All proportions.

Stability

Alkali: Not stable. Acids: Not stable.

Containers

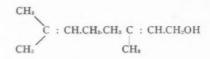
Citral should preferably be shipped in glass. Good grade tins may be used if long storage is not contemplated.

Storage

Store preferably in tight full containers in a cool place protected from light.

Specifications and Standards for Geraniol

Mol. Wt. 154.24



Solubility: Soluble in 7 volumes of 60% alcohol.

Sodium Bisulphite Solubility Test

Introduce 5 cc of Citral into a 100 cc Cassia Flask and add 5 cc of a 30% solution of freshly prepared Sodium Bisulphite. Shake the cassia flask in a water bath for 2 minutes, then add 50 cc of additional bisulphite solution and shake flask in the water bath until completely reacted, which is indicated by an apparently clear solution. Then add enough hot distilled water to raise the meniscus within the graduated portion of the flask. No oil separates when the solution is cooled.

Citral Content

Not less than 97%.

Method: Proceed as directed in the hydroxylamine method for aldehydes (See Determinations G.T. D), using approximately 1 gram of sample, accurately weighed. The difference in the cc of N

— HCL required for both citrations multiplied by 0.07611 indicates the weight in grams of Citral in the sample taken for assay.

Solubility

Benzyl Benzoate: All proportions. Diethyl Phthalate: All proportions. Fixed Oils: All proportions. Glycerine: Insoluble, Preparation

Obtained from such essential oils as Citronella Java and Palmarosa Oil, and other essential oils.

Physical and Chemical Constants

Color and Appearance—Colorless liquid, having a rose-like odor.

Specific Gravity 15° C.: .870 to .890.

Optical Rotation: -2° to $+2^{\circ}$.

Refractive Index @ 20° C.: 1.4710 to 1.4780.

Solubility in Alcohol—Soluble in two and more volumes of 70% alcohol.

Total Alcohol Content—Not less than

Total Alcohol Content—Not less than 88% calculated as C₁₀H₁₇OH.

Method: Proceed as directed for the determination of total acohols (See Determinations G.T. B), using approximately 1.2 gms of acetylized oil, accurately weighed for the saponification. Calculate the percentage of total alcohols as geraniol, using the following formula:

Total Alcohols = $\frac{A \times 7.712}{B - (A \times .021)}$

"A" is the result obtained by subtracting the number of cc of half normal hydrochloric acid required in the titration from the number of cc of half normal alcoholic potassium hydroxide originally taken.

"B" is the weight of acetylized oil.

Ester Content—Not more than 1% calculated as Geranyl Acetate.

Method: Proceed as directed for the de-



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Oil	Lemongrass	Oil Wormseed

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termination of esters (See Determinations G.T. A), using approximately 5 gms. of sample accurately weighed. The number of cc of half normal alcoholic potassium hydroxide consumed in the saponification, multiplied by .0981 indicates the gms. of ester calculated as geranyl acetate.

Aldehyde Content-Not more than 1%

calculated as Citronellal.

Method: Proceed as directed in the Hydroxylamine Method for aldehydes (See Determinations G.T. D), using approximately 5 gms. of sample accurately weighed and allow the test to stand for 15 minutes at room temperature. The difference in the number of cc required for the titration of the blank and the sample multiplied by .07712 indicates the number of grams of aldehyde calculated as citronellal.

Descriptive Characteristics

Solubility

Diethyl Phthalate: Soluble in all proportions

Benzyl Benzoate: Soluble in all propor-

Mineral Oil: Soluble in all proportions. Fixed Oils: Soluble in all proportions. Glycerine: Insoluble.

Propylene Glycol: Soluble in all proportions.

Stability:

Acids: Not stable.

Alkali: Fairly stable at moderate temperatures.

Containers

Should be shipped preferably in glass or tin-lined containers. Good quality gal-vanized containers are suitable provided long storage is not contemplated.

Storage

Store in tight, full containers in a cool place, protected from light.

Specifications and Standards for GERANYL ACETATE

C10. H17. O2. C2. H3

Mol. Wt. 196.28

Preparation

Obtained from Geraniol by acetylation.

Physical and Chemical Constants

Color and Appearance-Colorless liquid

having a pleasant flowery odor. Specific Gravity @ 15° C.: 0.907 to

Optical Rotation: -2° to +2°.

Refractive Index @ 20° C .: 1.4580 to 1.4640.

Ester Content: Not less than 90%.

Proceed as directed for the determination of esters (See G.T. A), using approximately 1.0 gram of sample accurately weighed. The number of cc of half normal potassium hydroxide solution consumed in the saponification, multiplied by 0.0981, indicates the number of grams of ester calculated as Geranyl Acetate in the sample taken for assay.

Solubility in Alcohol—Soluble in 8 volumes of 70% alcohol.

Descriptive Characteristics

Solubility:

Benzyl Benzoate: Soluble in all proportions

Diethyl Phthalate: Soluble in all proportions

Fixed Oils: Soluble in all proportions. Glycerine: Insoluble.

Mineral Oil: Soluble in all proportions. Propylene Glycol: Not completely soluble in all proportions.

Stability: Acids: Fairly stable to weak organic acids.

Alkali: Unstable to alkalies, due to saponification of the ester with subsequent liberation of free geraniol.

Containers

Geranyl Acetate should be shipped in glass, aluminum, tin-lined or good quality galvanized iron containers.

Storage

Store preferably in tight, full containers in a cool place, protected from light.

Specifications and Standards for CITRONELLOL

Preparation

Reduction of citronellal or geraniol or obtained from essential oils such as geranium and citronella, etc.

Physical and Chemical Constants

Color and Appearance-Colorless liquid

having a roselike odor.

Specific Gravity 15° C.: .849 to .868.

Optical Rotation: -3° to +3° Refractive Index @ 20° C .: 1.4460 to 1,4600.

Solubility in Alcohol-Soluble in two and more volumes of 70% alcohol.

Total Alcohol Content-Not less than 90% calculated as C10H10OH.

Method: Proceed as directed for the determination of total alcohols (See Determinations G.T. B), using approximately 1.2 gms, of the acetylized oil accurately weighed for the saponification. Calculate the percentage of total alcohols as citronellol, using the following formula: A × 7.813

Total Alcohols = $B - (A \times .021)$

"A" is the result obtained by subtracting the number of cc of half normal hydrochloric acid required in the titration from the number of cc of half normal alcoholic potassium hydroxide originally taken.

"B" is the weight of acetylized oil. Ester Content-Not more than 1% calculated as citronellyl acetate.

Method: Proceed as directed for the determination of esters (See Determinations G.T. A), using approximately 5 gms. of sample accurately weighed. The number of cc of half normal alcoholic potassium hydroxide consumed in the saponification, multiplied by .0991, indicates the gms. of ester calculated as citronellyl acetate.

Aldehyde Content-Not more than 1% calculated at Citronellal.

Method: Proceed as directed in the Hydroxylamine Method for aldehydes (See Determinations G.T. D), using approximately 5 gms. of sample accurately weighed and allow the test to stand for 15 minutes at room temperature. The difference in the number of cc required for the titration of the blank and the sample multiplied by .07712 indicates the number of gms. of aldehyde calculated as citronellal.

Descriptive Characteristics

Solubility:

Diethyl Phthalate: Soluble in all proportions.

Benzyl Benzoate: Soluble in all proportions.

Mineral Oil: Soluble in all proportions. Fixed Oils: Soluble in all proportions. Glycerine: Insoluble.

Propylene Glycol: Soluble in all propor-Stability:

Acids: Fairly stable to dilute acids.

Alkali: Fairly stable.

Containers

Should be shipped preferably in glass or tin-lined containers. Good quality galvanized or black iron containers are suitable provided long storage is not contemplated.

Storage

Store in tight, full containers in a cool place, protected from light.

Specifications and Standards for SAFROL

C10H20O

M.W. = 162.13

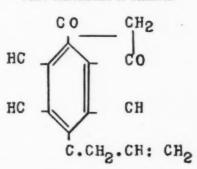
Preparation By isolation from brown Camphor Oil, Oil Ocotea Cymbarum and Oil Sassafras.

Physical and Chemical Constants Specific Gravity @ 15°C: 1.100 to 1.107.

Optical Rotation @ 15° C: -0°30' to + 0°30'.

Refractive Index @ 20° C: 1.5363 to

Congealing Point: 10° C. to 11.2° C. Solubility 90% Alcohol: 3 volumes. Color: Water white to slight yellow. Odor: Characteristic of Sassafras.



Descriptive Characteristics

Solubility:

Benzyl Benzoate: All proportions. Fixed Oils: All proportions. Glycerine: Insoluble. Mineral Oil: Soluble. Propylene Glycol: Slightly soluble.

Stability:

Water: Insoluble.

Alkali: In the presence of strong alkali a pink or red discoloration changing to yellow or brown on standing is often ob-



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Phenyl Acetic Acid
Phenyl Acetamide
Potassium Phenyl Acetate

Methyl Phenyl Acetate Ethyl Phenyl Acetate Benzyl Cyanide Phenobarbital Sodium Phenyl Acetate

AROMATIC CHEMICALS

Phenyl Ethyl Alcohol Phenyl Ethyl Acetate Ethyl Phenyl Acetate Benzyl Acetate

Benzyl Alcohol Benzyl Benzoate Amyl Cinnamic Aldehyde Diethyl Phthalate Methyl Acetophenone Benzophenone Nerolin Yara Yara

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Acids: In the presence of some organic and inorganic acids a change is noted, the degree of change depending upon the

Oxidation: Relatively resistant to oxidation at ordinary temperatures and conditions.

Containers

Safrol should be shipped in glass, aluminum or tin-lined containers. Good quality galvanized containers are suitable when long periods of storage are not contemplated.

Storage

Store preferably in tight, full containers in a cool place protected from light.

Specifications and Standards for NITRO MUSKS

Preparation

Nitration of the corresponding benzene

Physical and Chemical Constants

Musk Xylol.

Color and Appearance: Yellow crystalline powder or needle-like crystals.

Odor: Suggestive of musk. Melting Range: 112.5 to 114.5° and 104 to 106° C.

Two melting points have been observed for Musk Xylol: a low melting or bile" modification melting at 104-106°, and the higher melting or "stable" form and the higher melting or melting at 112.5° to 114.5°. When the low-melting form is encountered, permit the melt to resolidify and redetermine the melting point. This procedure permits the necessary transition to the higher melting form. A persistent low melting point, after solidification, generally indicates a contaminated or unrefined product.

Musk Ambrette: Color and appearance: Yellow granular crystals.

Odor: Powerful musk-like odor with suggestion of Ambrette seeds.

Melting Range: 84° to 86° C Musk Ketone: Color and appearance: Pale yellow platelets or fine crystalline powder.

Odor: Musklike odor considered as more closely resembling natural musk than other nitrated products.

Melting Range: 134.5 to 136.5° C.

Descriptive Characteristics

Stability:

The nitro musks are relatively stable to oxidation, dilute acids, and alkalis, although some discoloration may be noted with Musk Ambrette in the presence of alkaline materials. Exposure to sunlight generally effects a discoloration of the nitro-musks.

Containers

Small quantities in paper-lined tin cans. Large quantities are usually packed in wooden barrels or fiberboard and pressboard containers.

Storage

The nitro musks are best preserved by storage in a cool place protected from

Solubility:	Musk Xylol	Musk Ambrette	Musk Ketone
Alcohol 95%	Sl. Sol.	S1. Sol.	Sl. Sol.
25° approx.	(0.7 gms.	(2.6 gms.	(1.4 gms.
Benzyl	per 100 cc) Sol.	per 100 cc)	per 100 cc)
Benzoate	28 gms.	Sol. (56 gms.	Sol.
25° approx.	per 100 cc)	per 100 cc)	(28 gms. per 100 cc)
Diethyl	Sol.	Sol.	Sol.
Phthalate	(17 gms.	(44 gms.	(16 gms.
25° approx.	per 100 cc)	per 100 cc)	per 100 cc)
Fixed Oils	Sol.	Sol.	Sol.
Volatile Oils	Sol.	Sol.	Sol.
Glycerine	Insol.	Insol.	Insol.
Propylene Glycol	Insol.	Insol.	Sl. Sol.
Mineral Oil	Sol.	Sl. Sol.	Sl. Sol.
Water	Insol.	Insol.	Insol.

Musk Xylol	Musk Ambrette	Musk Ketone
NOS CH3	No ² No ²	CH3 CH3
CH3 - CH3 NO2	сн3 — с — сн3	NOS NOS
$C_{12}H_{15}O_6N_3$ M.W. = 297.45	CH ₃ CH ₃ C ₁₂ H ₁₆ O ₅ N ₂ M.W. = 268.41	CH ₃ — C — CH ₃ CH ₃ C ₁₄ H ₁₈ O ₅ N ₂ M.W. = 294.44
2, 4, 6-Trinitro 1, 3- Dimethyl 5-tertiary Butyl Benzene	2, 6-Dinitro 3-Methoxy 4-tertiary Butyl Toluene	3, 5-Dinitro 2, 6- Dimethyl 4-tertiary Butyl Acetophenone

Specifications and Standards for OIL PALMAROSA

Other General Names

Oil Geranium, East Indian. Oil Geranium, Turkish.

Botanical Nomenclature

Cymbopogon Martini Stapf. var. Motia.

Preparation

Obtained by steam distillation of the . partially dried grass.

Physical and Chemical Properties

Color and Appearance: A light yellow to yellow oil. As imported, it is often hazy and brownish because of the crude methods of production.

Specific Gravity at 15° C.: 0.885 to 0.897. Optical Rotation -2° to +3°

Refractive Index at 20° C.: 1.4730 to

Ester Contents: 4% to 13% (Java oils: as high as 18%).

Proceed as directed for the Determination of Esters (see G.T.A.), using approximately 5.0 grams of the oil, accurately weighed. The number of cc of half-normal alcoholic potassium hydroxide consumed in the saponification, multiplied by 0.0981, indicates the number of grams of esters, calculated as Geranyl Acetate, in the oil taken for assay.

Total Alcohol Content: 88% to 94%. Proceed as directed for the Determination of Total Alcohols (see G.T. A.), using approximately 1 gram of the acetylized oil, accurately weighed, for the subsequent saponification. Calculate the percentage of Total Alcohols, calculated as Geraniol, by the following formula:
Per cent of Total Geraniol =

A × 7.712 $1 - (E \times 0.0021)$ $B - (A \times 0.021)$

A is the result obtained by subtracting the number of cc of half normal hydrochloric acid required in the titration from the number of cc of half normal alcoholic potassium hydroxide originally taken.

B is the weight of acetylized oil taken. E is the precentage of ester.

Solubility in Alcohol: Soluble in 2 volumes of 70% alcohol.

Descriptive Characteristics

Solubility

Benzyl Benzoate: Soluble in all proportions.

Fixed Oils: Soluble in all proportions. Glycerin: Relatively insoluble.

Mineral Oil: Soluble, usually with opalescence or turbidity.

Propylene Glycol: Soluble in all proportions.

Stability: Acids: Unstable in the presence of strong acids.

Alkali: Relatively stable in the presence of alkalies at moderate temperatures.

Containers

Should be shipped preferably in glass or tin-lined containers. Good quality galvanized containers are suitable, provided long storage is not contemplated.

Storage

Store in tight, full containers in a cool place, protected from light.

Specifications and Standards for

BENZYL ACETATE

C.H.CH.O.C.H.

Mol. Wt. 150.17

Preparation

Prepared by the interaction of Benzyl Chloride and Sodium Acetate in the presence of glacial acetic acid and by acetylation of Benzyl Alcohol.

Physical and Chemical Constants

Color and Appearance: Colorless liquid having a characteristic flowery odor.

Specific Gravity @ 15° C.: 1.059 to 1.062. Refractive Index @ 20° C.: 1.5015 to 1.5035.

Acid Value: Maximum 1.0

Proceed as directed for the determination of Acid Value. (See Determinations G.T. E.)

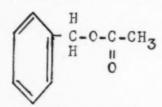
Ester Content: 98% Minimum.

Assay: Proceed as directed for determination of Esters. (See Determinations G.T. A) using approximately 0.9 gm sample accurately weighed. The number of cc. of half-normal Potassium Hydroxide solution consumed in the saponification multiplied by 0.0751 indicates the number of grams of ester calculated as Benzyl Acetate in the sample taken for assay. (This result should be corrected for Acid Value. See Determination G.T. E.)

Chlorine: Negative.

Proceed as directed for the determination of Chlorinated Compounds. (See Determinations G.T. G.)

Solubility in Alcohol: Soluble in 5 volumes of 60% Alcohol.



Descriptive Characteristics

Stability:

Alkali: Unstable to alkali due to saponification of the ester with subsequent liberation of free Benzyl Alcohol.

Acids: Fairly stable to weak organic acids.

Solubility:

Benzyl Benzoate: Soluble in all proportions.

Diethyl Phthalate: Soluble in all proportions.

Fixed Oils: Soluble in all proportions. Alcohol: Soluble in all proportions. Mineral Oil: Soluble.

Propylene Glycol: Soluble. Glycerine: Insoluble.

Water: Insoluble.

Containers

Should be shipped in glass, aluminum or tin-lined containers. Good quality galvanized containers are suitable when long storage is not contemplated.

Storage

Store preferably in tight, full containers in a cool place protected from light.

Specifications and Standards for

LINALYL ACETATE

(90% from Bois de Rose Brazilian) C.10H11O2C2H2 Mol. Wt. 196.28

Preparation

Obtained from Bois de Rose Brazilian by acetylation and subsequent fractionation.

Physical and Chemical Constants

Color and Appearance—Colorless to slightly yellow having a pleasant flowery odor.

Specific Gravity 15° C.: 0.908 to 0.920.

Optical Rotation: —1 to +1.

Refractive Index 20° C.: 1.450 to 1.458.

Acid Value: Not more than 2.

Ester Content: Not less than 90%.

Assay

Proceed as directed for determination of esters (See Determinations G.T. A) using approximately 1.0 gm. sample accurately weighed. The number of cc of half-normal Potassium Hydroxide Solution consumed in the saponification multiplied by 0.0981 indicates the number of grams of ester calculated as Linalyl Acctate in the sample taken for assay. This result should be corrected for Acid Value (See Determination G.T. E.)

Descriptive Characteristics

Solubility in Alcohol: Soluble in 5 volumes of 70% Alcohol.

Solubility:
Diethyl Phthalate: Soluble in all proportions.

Benzyl Benzoate: Soluble in all proportions.

Mineral Oil: Soluble in all proportions. Fixed Oils: Soluble in all proportions. Alcohol: Soluble in all proportions.

Propylene Glycol: Slightly soluble; about 5%.

Water: Insoluble. Glycerine: Insoluble. Stability:

Acids: Not very stable; strong acids transform Linalyl Acetate into terpenic products.

Alkali: Unstable to alkalis due to saponification of the ester with subsequent liberation of free Linalool.

Containers

Linalyl Acetate should be shipped in glass, aluminum, tin-lined or good quality galvanized iron containers.

Storage

Store preferably in tight, full containers in a cool place protected from light.

Specifications and Standards for OIL CEDARWOOD and CEDARWOOD TEXAS

Botannical Nomenclature

Juniperus virginiana, L.: Oil of Red Cedarwood.

Oil Cedar.

Oil Cedarwood American,

Juniperus Mexicana, Scheide, and closely related species: Oil Cedarwood Texas.

Preparation

By steam distillation of the chopped and ground wood.

Physical and Chemical Constants (See Table Below)

Descriptive Characteristics

Stability:

Alkali: Fairly stable to alkali. Acids: Fairly stable to weak acids. Solubility:

Benzyl Benzoate: Soluble in all proportions.

Fixed Oils: Soluble in all proportions in most fixed oils.

Glycerine: Relatively insoluble. Mineral Oil: Soluble in all proportions. Propylene Glycol: Relatively insoluble.

Containers

Should be shipped in glass, tin-lined, or aluminum containers. Good quality galvanized containers are suitable when long storage is not contemplated.

Storage

Store preferably in tight, full containers in a cool place protected from light.

Specifications and Standards for METHYL ANTHRANILATE

C₈H₉O₉N

Mol. Wt. 151.08

Preparation

Esterfication of anthranilic acid.

Physical and Chemical Properties

Color and Appearance: Colorless to pale yellow liquid with bluish fluorescence, having an odor of the grape type.

Specific Gravity @ 15° C.: 1.167 to 1.175.

Refractive Index @ 20° C.: 1.5820 to 1.5840. Congealing Point: Min. 23.8° C.

Proceed as directed for the determina-

	Juniperus Virginiana	Juniperus Mexicana
Color and Appearance:	Colorless to light yellow slight viscous liquid	Colorless to yellow slightly viscous liquid
Specific Gravity		
@ 15° C.:	0.945 to 0.9060	0.950 to 0.960
Optical Rotation:	-27° to -45°	-35° to -50°
Refractive Index @ 20° C.:	1.5020 to 1.5070	1.5040 to 1.5070
Solubility in Alcohol:	Soluble in 5 volumes of 95% alcohol	Soluble in all proportions of 95% alcohol

tion of Congealing Temperature. (See

U.S.P. XIII, page 629.) Solubility in Alcohol: Soluble in 5 volumes and more of 60% alcohol.

Descriptive Characteristics

Solubility:

Benzyl Benzoate: All proportions. Diethyl Phthalate: All proportions. Fixed Oils: All proportions. Glycerine: Insoluble. Mineral Oil: Partly soluble. Propylene Glycol: All proportions. Volatile Oils: Partly or all proportions.

Stability: Acids—Fairly stable to organic acids. Alkali—Stable in weak alkaline media,

saponified by caustic alkali.

Containers

Should be shipped in glass, aluminum or in tin-lined containers.

Storage

Store preferably in tight, full containers in a cool place, protected from light. Prolonged storage or exposure to light may cause discoloration.

Specifications and Standards for ACETOPHENONE

C₆H₈O Mol. Wt. 120.14 Methyl phenyl ketone; Acetyl benzene;

Hypnone Acetophenone is found in nature and is produced synthetically. Most acetophenone consumed is of the synthetic type. It is used in perfumery and the pharmaceutical

Preparation

It may be synthesized from benzene, anhydrous aluminum chloride and acetic anhydride or acetyl chloride by the Friedel-Crafts synthesis and by the oxidation of ethyl benzene.

Physical & Chemical Properties

Color, Appearance and Odor: It is an almost colorless liquid at room temperature having a very sweet pungent odor. Specific Gravity at 25°/25°: 1.025-

Refractive Index at 20°C.: 1.5330-

Congealing Point: 19°C. minimum. Proceed as directed for determination of congealing points. (See H)

Purity: Minimum of 98% by the hydroxylamine method. (See D)

Use approximately 1.0 gm. sample accurately weighed. The difference in the cc of N/2 HCl required for both titrations multiplied by 0.06007 indicates the weight in grams of Acetophenone in the sample taken for Assay.

Chlorine: Negative. Proceed as directed for the determination of chlorinated compounds. (See G)

Solubility in Alcohol: Soluble in 5 volumes of 50% Alcohol.

Descriptive Characteristics

Stability:

Acids: Relatively stable in most acids. Alkali: Relatively stable.

Solubility:

Benzyl Benzoate: Soluble in all pro-

Diethly Phthalate: Soluble in all proportions

Fixed Oils: Soluble in all proportions in most fixed oils.

Mineral Oil: Slightly soluble.

Propylene Glycol: Soluble in all proportions.

Glycerine: Insoluble.

Containers

Should be shipped in glass, aluminum, tin-lined or iron containers.

Storage

No unusual precautions.

Specifications and Standards for OIL BOIS DE ROSE BRAZILIAN

Other General Name

Oil Rosewood.

Botanical Nomenclature

1. Indefinite. Possibly

(a) ANIBA ROSAEODORA var. Amazonica (Ducke), Family: Laura-

(b) ANIBA PARVIFLORA

(Mez), Family: Lauraceae.
(c) OCOTEA CAUDATA (Mez.) (LICARIA GUIANENSIS) (Aubl.), Family: Lauraceae.

PROTIUM (ICICA) ALTIS-SIMUM (March), Family: Burseraceae.

Preparation

By steam distillation of wood.

Physical and Chemical Constants Specific Gravity @ 15°C.. 0.8750-0.8950 ... -4° to +5° Optical Rotation Refractive Index @ 20°C. 1.4620-1.4685 Total Alcohols: 84 to 92%

Proceed as directed for the determination of Linalool and oils containing Linalool. (See C.) Use approximately 1.2 gms. of acetylized oil accurately weighed for the subsequent saponification.

Solubility-Soluble in some dilution between 3.5 and 6 volumes of 60% alcohol and in 2 volumes of 70% alcohol.

Color and appearance-Pale yellow to vellow liquid.

Descriptive Characteristics

Stability:

Alkali: Relatively stable to alkali, although some change takes place.

Acids: In the presence of some organic acids esterfication of the alcohol takes place. In the presence of many strong inorganic acids, decomposition takes place. Degree of change depends upon conditions.

Solubility

Benzyl Benzoate: Generally soluble. Fixed Oils: Soluble in all proportions

in most fixed oils. Glycerine: Slightly soluble.

Mineral Oil: It is usually soluble in 1/2 volume of mineral oil, but sometimes becomes opalescent to turbid; when further additions of the solvent are made.

Propylene Glycol: Soluble in all proportions.

Containers

Should be shipped in glass, tin lined or aluminum containers. Good quality galvanized containers are suitable when long storage is not contemplated.

Storage

Store preferably in well stoppered full containers, in a cool place protected from

Specifications and Standards for OIL PETITGRAIN PARAGUAY

Other General Names

Oil Petitgrain South American.

Botanical Nomenclature Citrus bigaradia, Risso.

Preparation

Obtained by steam distillation from the leaves and twigs of the bitter orange tree; at times the fruit adhering to the branches is distilled with it, indicated by a dextrorotation due to some peel oil.

Physical and Chemical Properties Color: Yellowish to slightly brown. Specific Gravity @ 15° C.: 0.885 to 0.895.

Optical Rotation: Mostly laevorotatory up to -3° sometimes dextrorotatory up

to + 3° Solubility: Soluble at some dilution between 2 and 4 volumes of 70% alcohol; however, upon further dilution it fre-

quently becomes opalescent or turbid.

Refractive Index @ 20° C.: 1.4580 to 1.4650.

Esters: 45% to 55% (occasionally as low as 40% and as high as 60%). Proceed as directed for the determination of esters (see A), using

approximately 2 grams of the oil, accurately weighed. The number of cc. of 0.5 N alcoholic potassium hydroxide consumed in the saponification, multiplied by 0.0981, indicates the number of grams of esters, calculated as linalyl acetate, in the oil taken for assay.

Descriptive Characteristics

Stability:

Alkali: Unstable in alkalies due to the hydrolysis of some of the esters and the liberation of free linalool and other alcohols.

Acids: In the presence of some organic or inorganic acids a change is noted, degree of change depending upon conditions. Solubility:

Benzyl Benzoate: Soluble in all proportions.

Fixed Oils: Soluble in all proportions in most fixed oils.

Glycerine: Slightly soluble.
Mineral Oil: Usually soluble with

opalescence or turbidity.
Propylene Glycol: Usually soluble with opalescence.

Containers

Should be shipped preferably in glass, tin-lined, or aluminum containers. Good quality galvanized containers are suitable when long storage is not contemplated.

Storage

Store preferably in well-stoppered, full containers, in a cool place protected from

(Turn to Page 235)

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C.S.M.A. SPECIFICATIONS

Official Specifications of the Chemical Specialties Manufacturers Association for

INSECTICIDES and DISINFECTANTS

OFFICIAL SPECIFICATIONS Liquid Household Spray Insecticide

(Adopted December, 1936)

1. A household spray oil type insecticide shall be harmless to man and warm blooded household animals, when used as directed.

2. When sprayed, as directed, it shall not stain fabrics, wall paper and general household furnishings, that are not stained by dry cleaning fluid.

3. When used in the customary manner it shall not contaminate closed packages of food materials commonly found in homes.

4. It shall not corrode metals.

5. It shall have no objectionable odor, and no particular odor shall be specified.

6. It shall have a flashpoint not less than 125° F. when tested in the Tagliabue closed cup.

7. It is recommended that it be purchased on a direct competitive basis with the Official Test Insecticide of the Chemical Specialties Manufacturers Association, Inc., by using the method of test specified in literature accompanying the Official Test Insecticide.

8. The Association hereby adopts the following grades (the plus or minus figures shown therein designating the points over or under the Official Test Control Insecticide when the "Unknown" and the "Control" are tested at the same time

n the s	same manner):	
Desig-		Kill
nation	Grade	Classification
AA	Excellent	+ 16 or higher
A	Very Good	+ 6 to + 15
В	Equal to Offi- cial Test	
	Insecticide	+ 5 to - 5

1: Standard Specifications for Liquid Hypochlorites Disinfectant, Deodorant and Germicide

Composition-Liquid hypochlorites are available in three forms: one, sodium hypochlorite alkaline with sodium hydrate, sodium carbonate or the other alkaline salts; two, hypochlorites which are essentially sodium hypochlorite and alkaline with calcium hydrate; and three, calcium hypochlorite solutions alkaline with calcium hydrate. A delivery of any one of these shall be satisfactory unless otherwise specified.

Physical Requirements - The hypochlorite solution shall be a homogeneous liquid. It shall be miscible with water of zero hardness at 20° C. (68° F.) in all proportions. It shall be ready for dilution when delivered.

Chemical Requirements-The available chlorine content which shall not be less than 2.5 per cent by weight shall be clearly stated on the label. Its rate of deterioration shall not be more than 10 per cent of its original available chlorine content when stored in the original container for six months in a cool, dark place at maximum temperature of 68° F. (20° C.).

Identification-Each container shall be marked with the name of the material, the brand (if any) of the material, the name of the manufacturer, net contents therein, and date of manufacture.

Packing-The hypochlorite shall be delivered in standard commercial containers of the size as called for in the schedule. Each container holding one gallon or more shall be stoppered with a closure having vent.

2: Standard Specifications for Pine Oil Disinfectant

1. The product shall be manufactured from pure steam distilled pine oil and emulsifying agent and remain clear and homogeneous under normal and reasonable conditions of storage.

2. It shall contain not less than 60 per cent by weight steam distilled pine oil.

3. It shall contain not more than 10 per cent water.

4. The phenol coefficient shall be determined by the F.D.A. Method of Test against B. typhosus and be clearly stated on the label attached to each shipping

5. It shall not contain kerosene or other petroleum distillates.

6. The product shall make a stable emulsion in water of zero hardness at 20° C. (68° F.) when diluted at the rate of 5 per cent. The emulsion shall stand for at least twenty-four hours showing no sign of oil float (unsaponified or clear free oil).

3: Standard Specifications for **Emulsifying Type Coal Tar** Disinfectant

1: It shall be made from phenols of coal tar or petroleum origin, or combinations of such phenols with coal tar oils, and an emulsifying agent.

2. It shall contain not less than 65 per cent by weight of phenols and coal tar

3. It shall contain not over 10 per cent of water, by weight.

4. It shall not contain kerosene or any petroleum distillates other than phenols of petroleum origin.

5. The phenol coefficient shall be determined by the Food and Drug Administration Method using B. typhosus as test organism, and shall be clearly stated on the label attached to each shipping con-

6. It shall make milky emulsions with water of zero hardness at 20° C. (68° F.) when diluted in the ratio of 5 parts of disinfectant to 95 parts of water for disinfectants having phenol coefficients of 10 or under; and in the ratio of 2 parts of disinfectant to 98 parts of water for disinfectants having phenol coefficients of over 10. These emulsions shall show not more than a trace of oily float or sediment when stored for 5 hours at room tempera-

7. It shall remain limpid, showing no sign of naphthalene crystallization down to 0° C. in 3 hours.

8. It shall contain less than 5 per cent of benzophenol.

9. The disinfectant, under normal and reasonable conditions of storage, shall remain stable and show no loss of germicidal value.

Certification and Labeling

10. The following form of statement on labels2, invoices, etc., is recommended:

"TheCompany certifies this phenolic disinfectant (emulsifying type) to conform to all requirements of the standard adopted by the CHEMICAL SPECIALTIES MANUFACTURERS ASSOCIA-TION, INC., and recorded as Commercial Standard CS70-.... by the National Bureau of Standards of the U. S. Department of Commerce. Phenol coefficient.....

¹ This type of disinfectant is available with phenol coefficients ranging from 2 to 30, and higher. Contract buyers should specify the phenol coefficient desired.

² When used on labels this statement is in ad-ition to, and not in lieu of, the ingredient state-ient required by the Insecticide Act of 1910.

4: Standard Specifications for Cresylic Disinfectants

Scope

1. This standard covers materials, physical and chemical properties, and certification of quality of phenolic disinfectant (soluble type), classified under two groups as follows:

(a) Group I-Phenolic disinfectants having phenol coefficients from

1.5 to 51.

(b) Group II—Phenolic disinfec-tants having phenol coefficients above 5.

Detail Requirements (Group 1)

- 2. Group I disinfectants shall be made from cresol or cresylic acid of coal tar or petroleum origin, and a dissolving agent.
- 3. Group I disinfectants shall contain not less than 50 per cent of cresol or cresylic acid, as determined by the method prescribed in U. S. Pharmacopoeia XI for the assay of cresol in the Saponated Solution of Cresol.
- 4. Group I disinfectants shall contain not more than 25 per cent by weight of inert ingredients (water plus glycerine, and organic solvents, if any).
- 5. The phenol coefficient of Group I disinfectants shall be determined by the Food and Drug Administration Method using B. typhosus as the test-organism, and shall be clearly stated on the label attached to each shipping container.
- 6. Group I disinfectants shall contain less than 5 per cent of benzophenol.
- 7. Group I disinfectants shall make clear solutions with water of zero hardness at 20° C. (68° F.) within the concentration range of from 1 to 4 per cent; such solutions, when kept in closed containers, shall remain either practically clear or become only slightly opalescent when allowed to stand for 24 hours at 20° C. (68° F.) away from direct light.
- 8. Group I disinfectants shall show no soap separation when cooled down to 0° C. and held at this temperature for 3 hours.

Detail Requirements (Group II)

- 9. Group II disinfectants shall be made from phenols of coal tar or petroleum origin, and a dissolving agent.
- 10. Group II disinfectants shall contain not less than 50 per cent of phenols.
- 11. Group II disinfectants shall contain not more than 25 per cent by weight of inert ingredients (water plus glycerine and organic solvents, if any).
- 12. The phenol coefficients of Group II disinfectants shall be determined by the Food and Drug Administration Method using B. typhosus as the test-organism,

less than 5 per cent of benzophenol.

13. Group II disinfectants shall contain

and shall be clearly stated on the label at-

tached to each shipping container.

- 14. Group iI disinfectants shall make clear solutions with water of zero hardness at 20° C. (68° F.) at concentrations of 2 per cent or less; such solutions, when kept in closed containers, shall remain either practically clear or become only slightly opalescent when allowed to stand for 24 hours at 20° C. (68° F.) away from
- 15. Group II disinfectants shall show no soap separation when cooled down to 0° C, and held at this temperature for 3 hours.

Certification and Labeling

16. The following form of statement on labels, invoices, etc., is recommended:

"TheCompany certifies this disinfectant to conform to all requirements for (Group I)

(Group II) standard adopted by the CHEMICAL SPECIALTIES MANUFACTUR-ERS ASSOCIATION, INC., and recorded as Commercial Standard CS71-..., by the National Bureau of Standards of the U.S. Department of Commerce. Phenol Coefficient...."

S.M.A. DEFENSE EMERGENCY SPECIFICATION "A" FOR PHENOLIC DISINFECTANT EMULSI-FYING TYPE

Purpose

1. The purpose of this defense emergency specification is to provide a minimum specification for quality, as a basis for understanding and voluntary guarantees between producers, distributors, and users in the purchase of the commodities covered by these specifications, and as a foundation for confidence on the part of purchasers that the efficacy of the material is that which may be expected of phenolic disinfectant (emulsifying type), manufactured in conformity with a recognized specification of a national trade association.

Scope

2. This specification covers materials. physical and chemical properties, and certification of quality of phenolic disinfectant (emulsifying type).

Detail Requirements

- 3. The disinfectant shall not contain kerosene or any petroleum distillate other than phenols of petroleum origin.
- 4. The phenol coefficient shall be determined by the Food and Drug Administration method, using B. typhosus as test organism, and shall be clearly stated on the label attached to each shipping con-
- 5. The disinfectant shall make milky emulsions with water of zero hardness at 20° C. (68° F.) when diluted in the ratio of 5 parts of disinfectant to 95 parts of water for disinfectants having phenol

coefficients of 10 or under; and in the ratio of 2 parts of disinfectant to 98 parts parts of water for disinfectants having phenol coefficients of over 10. These emulsions shall show not more than a trace of oily float or sediment when stored for 5 hours at room temperature.

- 6. The disinfectant shall remain limpid, showing no sign of naphthalene crystallization down to 0° C. in 3 hours.
- 7. The disinfectant shall contain less than 5 per cent of benzophenol (phenol, C.H.OH).
- 8. The disinfectant, under normal and reasonable conditions of storage, shall remain stable and show no loss of germicidal value.

Certification and Labeling

9. The following form of statement on labels*, invoices, etc., is recommended:

The Company certifies this phenolic disinfectant (emulsifying type) to conform to all requirements of a specification adopted and recorded as C.S.M.A. Defense Emerby the Chemical Specialties Manufacturers Association, Inc.

• When used on labels, this statement is in addition to, and not in lieu of, the ingredient statement required by the Insecticide Act of 1910.

S.M.A. DEFENSE EMERGENCY SPECIFICATION "B" FOR PHE-C.S.M.A. NOLIC DISINFECTANT SOLUBLE TYPE

Purpose

1. The purpose of this defense emergency specification is to provide a minimum specification for quality, as a basis for understanding and voluntary guarantees between producers, distributors, and users in the purchase of the commodities covered by these specifications, and as a foundation for confidence on the part of purchasers that the efficacy of the material is that which may be expected of phenolic disinfectant (soluble type), manufactured in conformity with a recognized specification of a national trade association.

Scope

2. This specification covers materials, physical and chemical properties and certification of quality of phenolic disinfectant, soluble type.

General Requirements

- 3. The disinfectant shall be made from phenols of coal tar or petroleum origin and a dissolving agent.
- 4. The disinfectant shall not contain kerosene or any petroleum distillates other than phenols of petroleum origin.
- 5. The phenol coefficient shall be determined by the Food and Drug Administration method, using B. typhosus as test organism, and shall be clearly stated on the label attached to each shipping container.
- 6. The disinfectant shall make either a clear or opalescent mixture with dis-

The disinfectants of Group I fall within the

^{*}A satisfactory method of assay of all possible types of disinfectants comprised by Group II is not available, but work on the subject is in

progress.

When used on labels, this statement is in addition to, and not in lieu of, the ingredient statement required by the Insecticide Act of 1910.

tilled water at 20° C. (68° F.) within the concentration range of 1 to 4 per cent; when opalescent, it shall become practically clear upon addition of a few drops of a 10 per cent KOH solution.

7. It shall show no soap separation when cooled down to 0° C. and held at this temperature for 3 hours.

Certification and Labeling

8. The following form of statement on labels*, invoices, etc., is recommended:

The Company certifies this phenolic disinfectant (soluble type) to conform to all requirements of a specification adopted and recorded as C.S.M.A. Defense Emergency Disinfectant Specification "B" by the Chemical Specialties Manufacturers Association, Inc.

When used on labels, this statement is in addition to, and not in lieu of, the ingredient statement required by the Insecticide Act of 1910.

C.S.M.A. SPECIFICATION "C" FOR PHENOLIC DISINFECTANT FROM SYNTHETIC PHENOLS

Purpose

1. The purpose of this commercial standard is to provide a minimum specification for quality, as a basis for understanding and voluntary guarantees between producers, distributors, and user in the purchase of the commodity covered by these specifications, and as a foundation for confidence on the part of purchasers that the efficacy of the material is that which may be expected of phenol disinfectant from synthetic phenols, manufactured in conformity with a recognized specification of a national trade association.

Scope

2. This specification covers materials, physical and chemical properties and certification of quality of phenolic disinfectants of synthetic origin.

Detail Requirements

3. The disinfectant shall be made from synthetic phenols of the type comprising alkyl, aryl, and aralkyl phenols, or their chlorinated or brominated derivatives, and a dissolving or emulsifying agent.

4. The phenol coefficient shall be determined by the Food and Drug Administration method, using B. typhosus as the test organism, and shall be clearly stated on the label attached to each shipping container.

5. The disinfectant, under normal and reasonable conditions of storage, shall remain stable and show no loss of germicidal value.

6. The disinfectant shall make stable emulsions or solutions with water of zero hardness at 20° C. (68° F.); they shall show not more than a trace of float or sediment when stored for 5 hours at room temperature.

Certification and Labeling

7. The following form of statement on labels*, invoices, etc., is recommended:

The Company certifies this phenolic disinfectant from synthetic phenols to conform to all requirements of a specification adopted and recorded as C.S.M.A. Specification "C" by the Chemical Specialties Manufacturers Association, Inc.

*When used on labels, this statement is in addition to, and not in lieu of, the ingredient statement required by the Insecticide Act of 1910.

C.S.M.A. SPECIFICATION "D" FOR FORTIFIED PHENOLIC DIS-INFECTANT

Purpose

1. The purpose of this commercial standard is to provide a minimum specification for quality, as a basis for understanding and voluntary guarantees between producers, distributors, and user in the purchase of the commodities covered by these specifications, and as a foundation for confidence on the part of purchasers that the efficacy of the material is that which may be expected of a fortified phenolic disinfectant manufactured in conformity with a recognized specification of a national trade association.

Scope

This standard covers materials, physical and chemical properties, and certification of quality of fortified phenolic disinfectant of both the emulsifying and soluble types.

Detail Requirements

3. The disinfectant shall be made from phenols of coal tar or petroleum origin, plus synthetic phenols of the class comprising alkyl, aryl or aralkyl phenols or their chlorinated or brominated derivatives, and a dissolving agent.

 The proportion of the synthetic phenol shall be not more than 25 per cent by weight of the total phenolic content.

5. The disinfectant shall not contain kerosene or any petroleum distillates other than phenols of petroleum origin.

6. The phenol coefficient shall be determined by the Food and Drug Administration method, using B. typhosus as test organism, and shall be clearly stated on the label attached to each shipping container.

7. The disinfectant, under normal and reasonable conditions of storage, shall remain stable and show no loss of germicidal value.

8. The disinfectant shall make stable emulsions or solutions with water of zero hardness at 20° C. (68° F.); they shall show not more than a trace of float or sediment when stored for 5 hours at room temperature.

Certification and Labeling

9. The following form of statement on labels*, invoices, etc., is recommended:

The Company certifies this fortified phenolic disinfectant to conform to all requirements of a specification adopted and recorded as C.S.M.A. Disinfectant Specification "D," by the Chemical Specialties Manufacturers Association, Inc.

When used on labels, this statement is in addition to, and not in lieu of, the ingredient statement required by the Insecticide Act of 1910.

SIMPLIFIED PRACTICE RECOMMENDATION FOR SIZES OF GLASS CONTAINERS AND PACKAGES FOR HOUSEHOLD INSECTICIDES

(Liquid Spray Type)

Table 1.-Retail Packages

	Package Size	Exhibition No. in Limitation Order L-103	Overflow Capacity	Masimum Weight of Glass	Н	right	Maximum Outside Diam, of Body	G.C.A. 400 Finish Size	Pack- ages per Shipping Case
	Fluid Ons.		Fluid Oss.	Avoir. Ozs.	I,	iches	Inches	M.M.	
1	pt.	80-50	16-31/32	11	6-41/64	overal!	2-63/64	28	24
	qt.	\$80-75 \$80-76	33-53/64 33-59/64	17½ 17¾	8-1/8 8-1/8	overall overall	3-47/64 3-47/64	28) 33§	12
1	gal. {bottle jug	80-96 51.98	135% 136	60 ,	12-9/16 9-3/8	overall bottom to neck bead	5-63/64 6-41/64	38) 38)	4

NOTES:

1. Finishes are interchangeable in accordance with provisions of the order.

2. When lower glass weights are used, adjustment to make correct capacity shall be made in the "B" dimension.

3. Profiles similar to those illustrated for Exhibit Series 80-00 for Boston Round Bottles and Series 51-00 for Glass Jugs as shown in WPB Limitation Order L-103 shall be maintained consistent with "C" and "D" dimensions.

4. Containers shall be round.

5. Bottom stippling optional.

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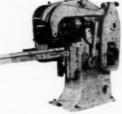


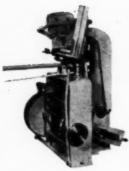
Newman's, BRAND NEW Steel Steam Jacketed SOAP CRUTCHERS Sizes 1,000 to 10,000 lbs.



Single screw soap plodders with 6, 8, 10 or 12 inch screws. If completely rebuilt a unconditionally guaranteed.







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ers.
Dopp Steam Jacketed Crutchers,
1000, 1200, 1500 lbs. and 800
gals. capacity.
Raiston Automatic Soap Presses.
Scouring Soap Presses.
Empire State, Dopp & Crosby
Foot Presses.
2, 3, 4, 5 and 6 roll Granite
Toilet Soap Mills.
H-A 4 and 5 roll Steel Mills.
H-A Automatic and Hand-Power
slabbers.

slabbers. Proctor & Schwartz Bar Soap

Dryers.
Blanchard No. 10-A and No. 14
Soap Powder Mills.
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H-A 6, 8 and 10 inch Single Screw Plodders. Allbright-Nell 10 inch Plodders.

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Federal Specifications

General requirements of the U.S. Federal Specifications Board for soaps, cleaners, detergents, dishwashing compound, polishes, floor wax, insecticides, etc.

Powdered High-Titer Built Soap (P-S-563)

The soap covered by this specification shall be of one type as hereinafter specified: Composition. -The composition of the soap shall be as shown in Table I. Form .- The soap shall be a homogeneous, uniform mixture of soap and alkalies in powdered form. It shall be readily soluble. Color.-The soap shall have a light uniform color. Odor.-The odor shall not be objectionable in the soap as received, or in a hot water solution. The soap shall not leave an objectionable odor on the objects after using with a water solution of the soap and rinsing thoroughly with hot water. If desired, the odor of the material under the above conditions shall conform to the odor of the sample approved by the bureau concerned. The approved sample shall be kept in an airtight container for comparison with the sample submitted for inspection.

Chip Soap (P-S-566a)

Chip soap shall be a soap in chip form made from soda and fats or fatty acids, without rosin, as free as possible from water and all substances other than true soap, of a light uniform color, free from disagreeable odor, and suitable for

Table I. - Composition

	Maximum	Minimum
	Per Cent	
Moisture and matter volatile at 105°C	16	
Free alkali, calculated as sodium hydroxide, NaOH	0.2	
Alkaline salts, calculated as sodium carbonate, Na ₂ CO ₂		21 per cent
Matter insoluble in water	1.0	
Chloride (calculated as sodium chloride)	0.5	
Anhydrous soap		56 per cent
Titer of the mixed fatty acid prepared from the soap		39°C.
Residue retained on a No. 12 sieve	1.5	
Passing through a No. 140 sieve	18.0	
Rosin	None	
Unsaponifiable matter	1.0	
Starch	None	

laundering and other washing, cleaning and scouring processes with soft water, when the presence of alkaline salts is not desirable.

Moisture and matter volatile at 105° C. shall not exceed 10 per

cent. The sum of free alkali, total matter insoluble in alcohol, and sodium chloride shall not exceed 4 per cent. Free alkali, calculated as sodium hydroxide (NaOH), shall not exceed 0.2 per cent. Matter in-

ONLY the essential requirements of these government specifications have been extracted in our summary. Copies of the complete specifications, including details as to packaging, methods of analysis, etc., are available through the U. S. Federal Specifications Board. The specifications listed are the latest versions as of the date of compilation of this edition of the Blue Book. Readers are cautioned, however, that further changes are being made periodically, and that the latest amended versions of all specifications should be consulted in filling government orders.

soluble in water shall not exceed 1.0 per cent. Anhydrous soap shall be not less than 85 per cent. Titer of the mixed fatty acids prepared from the soap must be not less than 39° C. No rosin shall be present.

Cake Grit Soap (P-S-571a)

Cake grit soap shall be of the following types as specified: Type A—for fine work, such as glass and enamel; Type B—for scouring and scrubbing.

Type A-

Moisture and matter volatile at 105° ±2° C. shall not exceed 4 per cent. Alkali as alkaline salts (total alkalinity of matter insoluble in alcohol), calculated as sodium carbonate (Na2CO3), shall not exceed 1 per cent. Free alkali, calculated as sodium hydroxide (NaOH), shall not exceed 0.1 per cent. Insoluble siliceous material shall be not less than 88 per cent nor more than 93 per cent. The insoluble siliceous material shall consist of not less than 90 per cent of ground feldspar. All of the insoluble siliceous material shall pass through a No. 100 sieve, and the residue retained on a No. 200 sieve shall not exceed 5 per cent. Sugar, and foreign matter shall not be present. Anhydrous soda soap shall be within 1 per cent of the difference between 100 and the sum of the matter volatile at 105° ±2° C., insoluble siliceous material, and alkali as alkaline salts. The cakes shall be well compressed and of a satisfactory degree of friability, which shall not be materially affected or lessened after immersion in or contact with water. The material shall not scratch glass or enameled surfaces. The material shall be unscented and shall be of a light gray or white color.

Type B-

Moisture and matter volatile at 105° ±2° C. shall not exceed 5 per cent. Alkali as alkaline salts (total alkalinity of matter insoluble in alcohol), calculated as sodium carbonate (Na₂CO₂), shall not exceed 3 per cent. Free alkali, calculated as sodium hydroxide (NaOH).

Detail Requirements for Laundry Chip Soap

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at 105° C		****
and sodium chloride	. 12.0	****
Free alkali, calculated as sodium hydroxide (NaOH)		
Free acid, calculated as oleic acid		
Matter insoluble in water		
Chloride, calculated as sodium chloride (NaCl)		
Anhydrous soap		72.0

shall not exceed 0.1 per cent. Insoluble siliceous material shall not be less than 75 nor more than 85 per cent. The insoluble siliceous material shall be mainly quartz, and it all must pass through a No. 100 sieve. Sugar, and foreign matter shall not be present. Anhydrous soda soap shall be within 1 per cent of the difference between 100 and the sum of the matter volatile at 105° ±2° C., insoluble siliceous material, and alkali as alkaline salts. The cakes shall be well compressed and of a satisfactory degree of friability, which shall not be materially affected or lessened after immersion in or contact with water. The material shall be unscented and shall be of a light gray or white color.

Hand Grit Soap (P-S-576a)

Hand-grit soap shall be a cake soap containing clean, finely divided insoluble siliceous matter, as free as possible from water, uncolored, mildly perfumed unless otherwise specified, and well compressed in firm, smooth cakes.

Matter volatile at 105° C. shall not exceed 25 per cent. Total alkalinity of matter insoluble in alco-

hol (alkaline salts), calculated as sodium carbonate (Na2CO2), shall not exceed 1 per cent. Free alkali, calculated as sodium hydroxide (NaOH), shall not exceed 0.1 per cent. Insoluble siliceous material shall be not less than 25 nor more than 35 per cent. The insoluble siliceous material shall not yield more than 2 per cent of residue retained on a No. 100 sieve and not more than 10 per cent of residue retained on a No. 200 sieve. Sugar, and foreign matter shall not be present. Rosin shall not exceed 5 per cent. Anhydrous soap shall be not less than 35 per cent. The percentage of moisture and volatile matter will be computed on the basis of the soap as received, but all other constituents will be calculated to the basis of material containing 25 per cent of matter volatile at 105° C. Unless otherwise specified, each cake shall weigh not less than 8 ounces nor more than 16 ounces.

Laundry Chip Soap (Rosin Type) (P-S-581)

Laundry chip soap shall be a well-made, uniformly mixed soap in chip form, made from soda and fats or fatty acids, with no excessive

Detail Requirements for Granulated Laundry Soap

	Maximum Per Cent	Minimum Per Cent
Moisture and matter volatile at 105° C		****
and sodium chloride	. 14.0	
Free alkali, calculated as sodium hydroxide (NaOH) Free acid, calculated as oleic acid		
Matter insoluble in water		
Chloride, calculated as sodium chloride (NaCl)		
Rosin		75.0
Anhydrous soap		75.0

proportion of rosin and a moderate amount of matter insoluble in alcohol, shall be of a uniform color, and shall be suitable for use with moderately hard water for general cleaning and laundry purposes. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The material shall not leave an objectionable odor on dishes or other objects after washing with a water solution of the soap and rinsing thoroughly with hot water. If desired, the odor of the material under the above conditions shall conform to the odor of a sam- . ple mutually agreed upon by buyer and seller.

.The material shall conform to the detail requirements listed in the table on facing page.

Granulated Laundry Soap (Rosin Type) (P-S-583)

Laundry granulated soap shall be a well-made, uniformly mixed soap in granulated or powdered form, made from soda and fats or fatty acids, with no excessive proportion of rosin and a moderate amount of matter insoluble in alcohol, shall be of a uniform color, and shall be suitable for use with moderately hard water for general cleaning and laundry purposes. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The material shall not leave an objectionable odor on dishes or other objects after washing with a water solution of the soap and rinsing thoroughly with hot water. If desired, the odor of the material under the above conditions shall conform to the odor of a sample mutually agreed upon by buyer and seller. Detail requirements listed in table on facing page.

Ordinary Bar Laundry Soap (P-S-591a)

Ordinary laundry bar soap shall be a well-made, uniformly mixed laundry or common soap, made from soda and fats or fatty acids, with no excessive proportion of rosin and a moderate amount of matter insoluble in alcohol, and shall be suitable for use with moderately hard water for general cleaning and laundry purposes.

Odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The materials shall not leave an objectionable odor on dishes or other objects after washing with a water solution of the soap and rinsing thoroughly with hot water. If desired, the odor of the material under the above conditions shall conform to the odor of a sample mutually agreed upon by buyer and seller. The mutually agreed upon sample shall be kept in an air-tight, closed container for comparison with samples from deliveries.

Moisture and matter volatile at 105° C. shall not exceed 36 per cent. The sum of free alkali or free acid, total matter insoluble in alcohol and sodium chloride, shall be not less than 2 per cent nor more than 11.0 per cent. Free alkali, calculated as sodium hydroxide (NaOH), shall not exceed 0.5 per cent. Free acid, calculated as oleic acid, shall not exceed 0.5 per cent. Matter insoluble in water shall not exceed 1 per cent. Chloride calculated as sodium chloride (NaCl), shall not exceed 1.0 per cent. Rosin shall not exceed 25 per cent. Anhydrous soap shall be not less than 52 per cent. The percentage of moisture and volatile matter will be computed on the basis of the soap as received, but all other constituents will be calculated on the basis of an assumed moisture and volatile matter content of 36 per

Powdered Laundry Soap (P-S-596a)

Powdered soap shall be a soap in powdered form made from soda and fats or fatty acids, without rosin, as free as possible from water and all substances other than true soap, of a light uniform color, free from disagreeable odor, and suitable for laundering and other washing, cleaning and scouring processes with soft water, when the presence of alkaline salts is not desirable.

Moisture and matter volatile

at 105° C. shall not exceed 6 per cent. The sum of free alkali, total matter insoluble in alcohol, and sodium chloride shall not exceed 4 per cent. Free alkali, calculated as sodium hydroxide (NaOH), shall not exceed 0.2 per cent. Matter insoluble in water shall not exceed 1.0 per cent. Anhydrous soap shall be not less than 89 per cent. Titer of the mixed fatty acids prepared from the soap shall be not less than 39° C. Residue retained on a No. 12 sieve shall not exceed 1.5 per cent. Rosin, none. The percentage of moisture and volatile matter will be computed on the basis of the soap as received, but all other constituents will be calculated on the basis of material containing 6 per cent of volatile matter.

Liquid and Paste Soap for Automobile, Floor and General Cleaning (P-S-598)

Soap covered by this specification shall be of two types. Type I—Liquid. Type II—Paste. Type I shall be a uniform liquid soap made from whole neutral vegetable oils and potash or distilled fatty acids. Type II shall be a uniform gel or paste soap made solely from whole neutral vegetable oils and potash.

Type I shall be soluble in soft water and when diluted with water shall act as a cleaner. The flash point shall be above its boiling point. It shall not contain any solvents or oils that will damage floor surfaces. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The material shall not leave an objectionable odor on surfaces after washing with a water solution of the soap and rinsing thoroughly with plain water.

Type II. Paste soap.—The material shall be a uniform translucent, firm gel or paste of a yellowish-white to brownish-yellow color. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The material shall not leave an objectionable odor on surfaces after washing

Detail Requirements (P-S-598)

with a water solution of the soap
and rinsing thoroughly with plain
water. Moisture (by distillation
method, using toluol instead of xylol)
-shall not exceed 55 per cent. De-
liveries which yield more than 55
per cent of moisture shall be rejected
without further test. The soap shall
dissolve readily to give a 0.15- to
0.2 per cent solution, using distilled
water at 15.5 to 20° C. (60° to 68°
F.). The solution so prepared shall
yield a good suds. A solution of the
soap in soft water shall act as a
cleaner and shall not damage sur-
faces on which it is used. When
specified, each bidder shall submit
with his proposal a 1-quart sample
of the soap that he proposes to fur-
nish, packed in a screw-top glass jar,
to show odor, color, and consistency.
The sample so furnished shall be
kept for comparison with samples
from deliveries. The material of each
type shall not become rancid or
otherwise deteriorate when kept in a
closed container.

The material shall conform to the detail requirements for the type indicated as listed in the accompanying table. Percentages are by weight.

Computation (type II only).

—The percentage of moisture shall be computed and reported by the testing laboratory on the soap as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture content of 50 per cent.

Soap; Low-Titer (P-S-600a)

Low-titer soap shall be of the following types and classes:

Type I—Bar form
Type II—Other forms
Class A—Granular
Class B—Powdered
Class C—Flake

The soap shall have a uniform color. The odor shall not be objectionable in the soap as received or in a solution of the soap in water at 125° to 130° F. The material shall not leave an objectionable odor on objects after washing with a water solution of the soap and rinsing thoroughly with hot water. If

	T	ype I	Ty	e II
Ad	lin.	Mar.	Min.	Max.
Moisture (toluol distillation method) (per cent)			**	55
Total matter insoluble in alcohol (per cent) Free alkali, calculated as potassium hydroxide (KOH)		0.5		1.0
(per cent) Free acid, calculated as oleic acid (per cent)		.05		.1
Alkaline salts, calculated as potassium carbonate				
(K ₂ CO ₂) (per cent)		.1		.2
Chloride, calculated as potassium chloride (KCL)		.3		.5
Unsaponified and unsaponifiable matter (per cent)		.4	**	.8
Anhydrous soap, calculated as potash soap (per cent). Fotal sodium compounds, calculated as NA ₈ O (per			43	
cent)		1.8		.5
odine number (WIJS) of mixed fatty acids derived				
from the soap			80 195	150 205
Acid number of mixed fatty acids derived from the soal		3		6
Sugar		None		None

desired, the odor of the material under the above conditions shall conform to the odor of a sample mutually agreed upon by buyer and seller. When specified, each bidder shall submit with his proposal a sample of the material that he proposes to furnish, to show color, odor, and condition.

Low-titer soap shall conform to detail requirements as listed in the table below.

Potash Linseed Oil Soap, Liquid and Paste, for Floor and General Cleaning (P-S-603)

Potash-linseed-oil soap shall be of two types. Type I—Liquid. Type II—Paste. Type I shall be a uniform liquid soap made solely from whole neutral raw linseed oil and potash. Type II shall be a uniform, translucent, firm gel or paste soap made solely from whole neutral raw linseed oil and potash.

Type I shall be soluble in soft water and when diluted with water shall act as a cleaner. The flash point shall be above its boiling point. It shall not contain any solvents or oils that will damage floor surfaces. The odor shall not be objectionable

Detail Requirements for Low Titer Soap

	Type I		Type II	
	Max.	Min.	Max.	Min.
Matter volatile at 105° ± 2° C. (per cent) Sum of free alkali or free acid, total matter insoluble		* *	7.0	
in alcohol, and sodium chloride (per cent)	2.0		9.0	
P-S-536a) (per cent)	0.4			
(per cent)	0.1		0.4	*
Free acid, calculated as oleic acid (per cent)	0.1		None	
Matter insoluble in water (per cent)	.5		1.5	
Rosin	None		None	
Sugar	None 10.0	* *	None	**
Unsaponified saponifiable matter (per ent)	1.0		1.0	
Anhydrous soap (per cent)		64.0		81.0
Titer of the mixed fatty acids prepared from the soap lodine number (Wijs) of the mixed fatty acids pre-	28° C		22° C	
pared from the soap		74.0	90.0	74.0
the soap	205.0	180.0	205.0	180.0
(per cent)	**		1.5	**

Detail Requirements for Potash Linseed Soap

in the soap as received or in a hot solution of the soap in water. The material shall not leave an objectionable odor on surfaces after washing with a water solution of the soap and rinsing thoroughly with plain water.

Type II-Paste soap shall be a uniform translucent firm gel or paste soap of a yellowish-white to greenish-brown color. The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The material shall not leave an objectionable odor on surfaces after washing with a water solution of the soap and rinsing thoroughly with plain water. Moisture (by distillation method, using toluol instead of Xylol) shall not exceed 55 per cent. Deliveries which yield more than 55 per cent of moisture shall be rejected without further test. The soap shall dissolve readily to give a 0.15- to 0.2-per cent solution, using distilled water at 15.5° to 20° C. (60° to 68° F.). The solution so prepared shall yield a good suds. A solution of the soap in soft water shall act as a cleaner and shall not damage floor surfaces. When specified, each bidder shall submit with his proposal a 1-quart sample of the soap that he proposes to furnish, packed in a screw-top glass jar, to show odor, color, and consistency. The sample so furnished shall be kept for comparison with samples from deliveries. The material of each type shall not become rancid or otherwise deteriorate when kept in a closed container.

The material shall conform to the detail requirements for the type indicated as listed in the accompanying table. Percentages are by weight.

Computation (type II only).

—The percentage of moisture shall be computed and reported by the testing laboratory on the soap as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture content of 50 per cent.

Soap Powder (P-S-606a)

Soap powder shall be a uniform mixture of soap and sodium

	Min.	Гуре	I Max.	Tyl Min.	de II Max.
Moisture (toluol distillation method) (per cent)					55
Total matter insoluble in alcohol (per cent) Free alkali, calculated as potassium hydrate (KOH			0.5		1.0
(per cent)			.05		.1
Free acid, calculated as oleic acid (per cent) Alkaline salts, calculated as potassium carbonat	e		.1	**	.2
(K ₂ CO ₃) (per cent)			.1		2
Matter insoluble in distilled water (per cent) Chloride, calculated as potassium chloride (KCL			.1		2
(per cent)			.3		.5
Unsaponified and unsaponifiable matter (per cent)			.4		1.0
Anhydrous soap, calculated as potash soap (per cent) Total sodium compounds, calculated as NA ₂ O		20		43	
(per cent)			2		.5
Glycerol (per cent)		1.8		4	
from the soap		5		175	
Acid number of mixed fatty acids derived from the so	ap 1	90	205	190	205
Sugar			None		None

carbonate, and/or other alkaline salts in powdered form. It shall be readily soluble in tepid water, shall contain no free caustic alkali or inert fillers, and shall be free from objectionable odor.

Anhydrous soap shall be not less than 15 per cent. Alkaline salts, calculated as sodium carbonate (Na₂CO₈) shall be not less than 30 per cent. The sum of anhydrous soap and alkaline salts, calculated as sodium carbonate shall be not less than 55 per cent.

Salt Water Soap (P-S-611a)

Salt-water soap shall be a soap well made from pure coconut oil fatty acids, pure palm kernel oil fatty acids, or a mixture thereof, and soda. It shall be entirely soluble in both sea water and fresh water and shall make a suitable lather. The soap shall be light in color and free from objectionable odor. The material shall conform to the

detail requirements listed in the table below.

The percentage of moisture and volatile matter shall be computed, and reported by the testing laboratory, on the soap as received. The percentages of all other constituents shall be calculated and reported on an assumed moisture and volatile matter content of 55%.

White Floating Toilet Soap (P-S-616a)

Floating toilet soap shall be a cake soap without objectionable odor, thoroughly saponified, and so prepared as to float on water.

Moisture and matter volatile at 105° C. shall not exceed 34 per cent. The sum of free alkali, total matter insoluble in alcohol, and sodium chloride shall not exceed 2.0 per cent. Free alkali, calculated as sodium hydroxide (NaOH), shall not exceed 0.1 per cent. Chloride,

Detail Requirements for Salt Water Soap

λ.	laximum	Minimum
Moisture and matter volatile at 105°Cper cent		
Total matter insoluble in alcoholper cent	3.0	2.0
Free alkali, calculated as sodium hydroxide (NaOH) per cent	.5	
Chloride, calculated as sodium chloride (NaCl)per cent	3.0	2.5
Anhydrous soapper cent		40.0
Matter insoluble in waterper cent	.5	
Acid number of the mixed fatty acids prepared from the soap		240
Sugar, and foreign matter	None	
Rosin	None	

calculated as sodium chloride (NaCl), shall not exceed 1 per cent. Matter insoluble in water shall not exceed 0.2 per cent. Anhydrous soap shall be not less than 62 per cent. Acid number of the mixed fatty acids prepared from the soap, shall be not less than 212. Rosin, sugar and foreign matter shall not be present. The percentage of moisture and volatile matter will be computed on the basis of the soap as received, but all other constituents will be calculated on an assumed moisture and volatile matter content of 34 per cent.

Liquid Toilet Soap (P-S-618a)

Liquid toilet soap shall be a clear solution of pure vegetable oil potash (or potash and soda) soap with or without glycerol or alcohol, suitably perfumed, and free from all foreign matter. It shall quickly form a satisfactory lather and have no injurious effect and leave no objectionable odor on the skin.

The odor shall not be objectionable in the soap as received or in a hot solution of the soap in water. The material shall not leave any objectionable odor on the skin or other surfaces after washing with a water solution of the soap and rinsing thoroughly with plain water. Unless otherwise specified each bidder shall submit with his proposal a one-quart sample, placed in a screwtop glass jar, to show odor, color, and consistency. The sample so furnished shall be kept for comparison with samples from deliveries.

The material shall be a clear solution, free from objectionable odor, other than from coconut oil, and shall form a satisfactory lather. Total anhydrous soap shall be not less than the equivalent of 15 per cent potash soap. Total matter insoluble in alcohol shall not exceed 0.5 per cent. Free alkali calculated as potassium hydroxide (KOH) shall not exceed 0.05 per cent. Chloride calculated as potassium chloride (KCI) shall not exceed 0.3 per cent. More than traces of sulphates and sugar shall not be present. All constituents shall be calculated on the basis of the original sample.

Milled Toilet Soap (P-S-621a)

Milled toilet soap shall be a high grade, milled cake soap as free as possible from water, either colored or uncolored, and mildly perfumed unless otherwise specified, thoroughly saponified, well compressed in firm, smooth cakes of a size and shape specified in the contract. It should lather freely when used with cold, soft water.

Moisture and matter volatile at 105° C. shall not exceed 15 per cent. The sum of free alkali, total matter insoluble in alcohol, and sodium chloride shall not exceed 1.7 per cent. Free alkali, calculated as sodium hydroxide (NaOH), shall not exceed 0.1 per cent. Matter insoluble in water shall not exceed 0.4 per cent. Unsaponified saponifiable matter shall not exceed 0.3 per cent. Anhydrous soap shall be not less than 83 per cent. Sugar and foreign matter shall not be present. Rosin, none. The percentage of moisture and matter volatile will be computed on the basis of the soap as received. but all other constituents will be calculated on the basis of material containing 15 per cent of volatile matter.

Powdered Toilet Soap (for (Dispensers) (P-S-626a)

Powdered toilet soap for use in dispensers shall be a thoroughly saponified soap in powdered form. made from soda and fats; shall be uncolored and mildly perfumed, unless otherwise specified; shall be a uniform, free-flowing, noncaking powder; and shall lather freely when used with cold soft water.

The material shall be a uniform powder and shall be freeflowing and noncaking when used in a dispenser conforming to type III or IV of Federal Specification FFD-396. It shall lather freely when used with soft water at room temperatures. Shall be mildly perfumed, unless otherwise specified. If desired, shall conform to the odor of a sample mutually agreed upon by buyer and seller. The mutually agreed upon sample shall be kept

in an airtight, closed container for comparison with samples from deliveries.

Shall be uncolored, unless otherwise specified. Matter volatile at 105°±2° C. shall not exceed 6 per cent. The sum of free alkali, total matter insoluble in alcohol, and sodium chloride shall not exceed 2.0 per cent. Free alkali, calculated as sodium hydroxide (NaOH), shall not exceed 0.1 per cent. Matter insoluble in water shall not exceed 0.2 per cent. Anhydrous soda soap shall be not less than 91 per cent. Rosin, sugar, and foreign matter shall not be present. The material shall meet the following fineness requirements:

Re	tain	ed on-			Maximum Per Cent
No.	12	sieve		-	1.5
No.	45	sieve		50	-
No	100	sieve		90	_

Toilet Soap-Borax Compound (for Dispensers) (P-S-628)

Soap and borax compound for use in dispensers shall be a uniform mixture of a thoroughly saponified soap and borax (NasBO. 10 H2O): shall be free from added coloring matter and mildly perfumed, unless otherwise specified; shall be a uniform free-flowing, noncaking powder, when used in a dispenser conforming to Type III or IV of Fed. Spec. FF-D-396. It shall lather freely when used with soft water at room temperature. Anhydrous soda soap shall be not less than 23 per cent and not more than 27 per cent. Borax, calculated as Na₂B₄O₇. 10 H₂O, shall be not less than 72 per cent and not more than 77 per cent. The pH of a 1 per cent solution by weight of the material in distilled water shall be not less than 9.0 and not more than 10.2 at 25° C., using a glass electrode. Matter insoluble in water shall not exceed 0.2 per cent. Sugar, and foreign matter shall not be present. Rosin none. The material shall meet the following fineness requirements:

R	etain	ed on—		Maximum Per Cent
No.	12	sieve	 _	0
No.	45	sieve	 5	-
No.	100	sieve	 45	-

Caustic Soda for Cleaning (P-S-631a)

Caustic soda shall be of but one grade. It shall be furnished in airtight containers (13-ounce cans or drums) in flake, ground, or lump form, as specified in the invitation for bids. It shall conform to the following detail requirements:

Sodium hydroxide (NaOH) shall be not less than 95 per cent.

Carbonate, calculated as sodium carbonate (Na*CO*), shall not be more than 2 per cent.

Laundry Soda (Washing Soda) (P-S-641a)

Laundry soda shall be a white uniform powder composed of sodium carbonate and sodium bicarbonate. It shall conform to the following detail requirements:

	Maximum Per Cent	
Total alkalinity, cal- lated as Na ₂ O	cu-	39
Sodium bicarbonate (NaHCO ₂)	50	35
Sodium carbonate (Na ₂ CO ₂)	50	35
Matter insoluble in		_

Cleaner Containing Synthetic Detergent for Painted Surfaces (P-C-431)

Cleaner for painted surfaces shall be on one grade and of the following types:

Type I.—Powder
Type II.—Flake
Type III.—Liquid
Type IV.—Paste

The cleaner shall be a uniform, homogeneous product, free from any objectionable odor, and consisting essentially of synthetic organic detergents. It shall contain no abrasives or fatty acid soaps and shall not be irritating to the skin.

General requirements.—Each bidder shall submit a sample of the cleaner he will deliver for inspection and testing. The cleaner shall be satisfactory for use in cleaning operations with soft, hard or sea water. The manufacturer shall supply with each package a complete set of clear,

concise instructions for the use of the cleaner. The cleaner shall be stable and not lose effectiveness or otherwise deteriorate when stored in closed containers at normal temperatures. pH value of 1.0 per cent distilled water solution (by weight) of the cleaner shall be not less than 5.5 nor more than 10.0. The cleaner shall be free-rinsing. A 0.2 per cent (by weight) solution of the cleaner shall not cause greater than onehalf loss in specular gloss of painted surfaces caused by a 0.2 per cent solution of trisodium phosphate. A solution of 50 grams of cleaner per liter, in distilled or sea water, shall exhibit a cleaning efficiency of not less than 80 per cent.

Cleaning Compound (P-C-565) Soap—Abrasive Type for painted surfaces

The product is to be without objectionable odor, and not harmful to the hands. The seller must label each container with directions for use. The product must be capable of being applied either with a damp cloth or sponge. It is to be a uniform soft paste, meeting the following requirements.

Matter volatile at 105°C. shall not exceed 65% by weight. It shall contain not more than 0.1% by weight of free alkali calculated as NaOH. It shall contain not more than 0.5% by weight free acid calculated as oleic acid. Alkaline salts calculated as Na2CO2 shall not exceed 5% by weight. Insoluble siliceous matter shall not be less than 25% nor more than 50% by weight. All of the insoluble siliceous matter shall pass through a No. 80 sieve; and not more than 15% shall be retained on a No. 200 sieve. Anhydrous soap shall be not less than 3.5% by weight.

A special test is provided for determination of abrasive properties. A thin film of the compound is spread over a clear microscopic slide. Another slide is placed over the film and the two slides pressed together, using a slight pressure, and

rubbing one slide over the other with a rotary motion. The slides when wiped clean of the compound shall not be scratched.

Grease-Cleaning Compound Solvent-Emulsion Type (P-C-576)

Grease-cleaning compound shall be furnished in two types, Type I, non-phenolic, and Type II, phenolic, The compound shall be uniform liquid and shall be suitable for the purpose intended.

Type I, nonphenolic

Flash point shall be not less than 200° F. (open cup). The compound shall have a neutralization number of not more than 8 (mg. of KOH to neutralize 1 gm. of compound). The compound shall have no free alkali. The pour point shall be not more than 35°F. The loss in weight shall be not more than 10 per cent after a 24-hour period. Shall be free from phenols. Physical and performance tests covering stability of emulsion, solubility in kerosene and in water, etc., are also provided.

Type II, phenolic

As above except that the material is to contain not less than 15 per cent and not more than 25 per cent phenols by volume, and must pass a phenol (C₆H₅OH) limitation test

Mechanics' Paste, Powder And Hand Detergents (P-D-221a)

Detergents for mechanics' use shall be of three types: Type I—hand grit paste detergent; Type II—hand scouring powder with mineral abrasive and Type III—hand scouring powder with vegetable abrasive. Type I shall be a uniform mixture of detergents and mineral abrasives in paste form. Type II shall be a uniform mixture of detergents and mineral abrasives in powder form. Type III shall be a uniform mixture in powder form of thoroughly saponified soap and/or active salt-free synthetic detergents,

and pine oil. The detergent shall not contain any mineral abrasives such as lava, pumice, sand, quartz, etc.

Detergents for mechanics' use shall be satisfactory for removing oil, grease, paint, printing inks and other occupational soil from the hands without harmful effect on the skin. They shall lather freely when used with fresh water at room temperature. Detergents in powder form shall be free-flowing and non-caking when used in dispensers conforming to the requirements of Federal Specification FF-D-396 for types III and IV.

The odor shall not be objectionable. If desired, it shall conform to the odor of a sample mutually agreed upon by buyer and seller. The mutually agreed upon sample shall be kept in an airtight, closed container for comparison with samples from deliveries.

For Type I detergent, the percentage of matter volatile at $105^{\circ} \pm 2^{\circ}$ C. will be computed on the basis of the grit paste detergent as received, but with all other constituents will be calculated on the basis of material containing 50.0 per cent of matter volatile at $105^{\circ} \pm 2^{\circ}$ C. Types II and III shall have all constituents reported on the basis of the sample as received.

Special Detergents (P-D-236)

Detergents for manual cleaning of aluminumware shall be of the following classes:

Class A. Non - abrasive cleaner.

Class B. Abrasive cleaner.

The material used in Class A non-abrasive cleaner shall be suitable for any type of manual washing where abrasiveness is not desired, and shall be substantially uniform in appearance throughout. It shall be free from objectionable odor, and shall dissolve readily in tepid water. Cleaner may be supplied in either powder, granule or chip form provided it conforms to the detailed requirements.

The material used in Class

Table I.-Detail Requirements for Hand Detergents

	T	ype I	Ty	pe II	Ty	e III	
	Min.	Max.	Min.	Max.	Min.	Max.	
Matter volatile at 105° ± 2° C		55.0		5.0		10.0	
Alkaline salts (calculated as sodium							
carbonate)		3.0	2.0	5.0		0.2	
Free alkali (calculated as sodium							
hydroxide)		0.1	****	0.1	****	0.1	
Free acid (calculated as oleic acid)		0.5	****	0.5	****	0.5	
Anhydrous soda soap and/or active							
salt-free synthetic detergents	8.0		17.0		35.0		
Matter insoluble in water (siliceous							
matter)	25.0	50.0	60.0	76.0		none	
Fineness of insoluble siliceous matter;							
Percent retained on:							
No. 40 sieve		none		none	****	****	
No. 60 sieve	10.0	20.0		5.0		****	
No. 80 sieve	30.0	45.0					
No. 100 sieve	35.0	55.0		30.0			
No. 200 sieve	60.0	****		60.0			
Matter insoluble in water (sawdust							
or cornmeal)	****		****		40.0	62.0	
Fineness of finished detergent:							
Percent retained on:							
No. 20 sieve						none	
No. 45 sieve					50.0		
No. 100 sieve					90.0		
Rosin				5.0		5.0	
Sugar		none		none		none	
Volatile hydrocarbons (pine oil)					3.0	5.0	

B abrasive cleaner shall be suitable for any uses requiring a manual cleaner where soil adheres too tenaciously for non-abrasive cleaners. It may be supplied in the form of a solid, a paste, or a combination of any two of the above. Combinations of metal wools and soaps may be supplied. The cleaner shall be free from objectionable odor and from poisonous or irritant chemicals.

Each bidder shall submit with his proposal a sample of the material that he proposes to furnish. Each sample shall be labeled to show the amount recommended for softening 10 gallons of water containing 10 grains (171 p.p.m.) of hardness, calculated as CaCO, and may be used by the inspector or purchasing officer in the recommended proportions for determining the performance or cleaning ability of the material.

Samples from deliveries shall be subjected to similar tests. If specified by the purchasing officer, the material, when used in the proportions recommended by the bidder, shall be at least equal in cleaning ability to a standard sample furnished, or indicated, by the purchasing officer.

Class A. Non-Abrasive Cleaner shall conform to the following detail requirements:

Turbidity-The turbidity of the cleaner solution shall conform to the test described in paragraph F-2b (2). (See complete Specification.) Corrosion-When tested by the method described in paragraph F-2f (2), the cleaner solution shall be without visible action on bare or anodic oxide-coated aluminum alloy. Water Softening Capacity - A suds which is stable for not less than 5 minutes shall be formed when the material is tested as described in paragraph F-2e. Hydrogen Ion Content-The pH of a 1 per cent solution by weight of the cleaner in distilled water shall not exceed 10.5 when measured as indicated in paragraph F-2h. Cleaning Ability-The material shall clean satisfactorily when tested as indicated in paragraph F-2a. Relative Cost-The relative cost of the

Composition (P=D=236)

cleaner shall be determined from the product of the delivered price per pound of the cleaner and the number of pounds of the cleaner required to treat 1000 gallons of water containing 10 grains (171 p.p.m.) per gallon of hardness, calculated as CaCO₂. The amount of cleaner used in this computation shall be that required to give the concentration used in paragraphs F-2b (2) and F-2e of this specification.

Class B. Abrasive Cleaner shall conform to the following detail requirements: Abrasion-When tested by the method described in paragraph F-2i (See complete Specification) the cleaner shall produce no undesirable scratching. Corrosion -When tested by the method described in paragraph F-2f (3), the cleaner shall be without visible action on bare or anodic oxide-coated aluminum alloy. Rinsibility - When tested by the method described in paragraph F-2j, the cleaner shall be removed completely from a glass plate. Cleaning Ability - The material shall clean satisfactorily when tested as indicated in paragraph F-2a.

Proposed Revisions For Mechanical Dishwashing Compound.

The following specification for mechanical dishwashing compound is now under revision and a new number will be assigned to type I, previously part of specification P-D-236.

The material used in this dishwashing compound shall be of but one grade. It shall include any free flowing form, such as powder, granular crystalline, and flake, and shall be suitable for use in spray type mechanical dishwashing machines. The material shall be thoroughly mixed and present no evidence of segregation of individual constituents, or of lumping or caking.

General Requirements: Bid sample. Unless otherwise specified in the invitation for bids, each bidder shall submit with his proposal a 10-pound sample of the material that he proposes to furnish for the purpose of determining compliance

	Percent (by weight)			
Constituents	Minimum	Maximum		
Moisture		25		
Alkali (as Na ₂ O)	30	45		
Phosphates (as PaOs)	20			
Silicates (as SiO ₂)	8			
Carbonates (as CO ₂)		20		
Insoluble matter		1		
Total of P2Os, SiO2, and CO2	35			
Total of Na ₂ O, P ₂ O ₅ , SiO ₂ and CO ₂	70			

with the requirements of this specification.

Sweeping Compound (P-C-591b)

Proposed revision specifica-

Sweeping compound shall consist of a uniform mixture of the materials as specified for each type and shall be artificially colored or uncolored as specified by the purchaser. If desired, shall conform to the color of a sample mutually agreed upon by buyer and seller. The material shall not stain flooring surfaces on which it is used.

Type I. — Sawdust- Sand-Mineral Oil.

Odor shall not be objection-If desired shall conform to the odor of a sample mutually agreed upon by buyer and seller. The material shall not give off flammable vapors when tested according to paragraph F-2b. Matter volatile at 105-110° C. shall be not more than 10 per cent by weight. Refined mineral oil (such as paraffin oil) shall be not less than 15 per cent and not more than 20 per cent by weight. The acid number (milligrams of KOH per gram of sample) of the extracted oils shall not exceed 17. The saponification number (milligrams of KOH per gram of sample) of the extracted oils shall not exceed 20. Clean, fine, feldspar sand shall be not less than 35 per cent and not more than 50 per cent by weight. Not more than 1 per cent by weight of sand (based on sand content) shall be retained on a No. 20 seive when tested according to paragraph F-2k. The remainder shall be finely ground sawdust. Not more than 1 per cent by weight of sawdust (based on sawdust content)

shall be retained on a No. 8 seive when tested according to paragraph F-2k.

Type II — Sawdust-Sand-Water wax emulsion.

Odor shall not be objectionable. If desired shall conform to the odor of a sample mutually agreed upon by buyer and seller. The material shall not give off flammable vapors when tested according to paragraph F-2b. Matter volatile at 105-110° C. shall be not more than 12 per cent by weight.

Clean, fine, feldspar sand shall be not less than 60 per cent and not more than 70 per cent by weight. Not more than 1 per cent by weight of sand (based on sand content) shall be retained on a No. 20 sieve when tested according to paragraph F-2k. Finely ground sawdust shall be not less than 5 per cent and not more than 10 per cent by weight. Not more than 1 per cent by weight of sawdust (based on sawdust content) shall be retained on a No. 8 sieve when tested according to paragraph F-2k. The remainder shall be waxes and emulsifying agents.

Liquid Automobile Polish (P-P-546)

Shall be suitable for use on lacquer, baked enamel and synthetic enamel finishes. Shall have no objectionable odor. Shall be a stable aqueous emulsion containing a suitable abrasive in suspension. The polish shall be a free-flowing fluid that can readily be applied with a cotton cloth and shall spread easily. Non-volatile matter, total solids, shall be not less than 25 per cent by weight. Ash content, based on

non-volatile, shall be not less than 35 per cent nor more than 50 per cent by weight. No free caustic alkali. Neutralization number shall be not more than 5. All of the material shall pass through a No. 200 sieve, and not less than 95 per cent, based on ash content, shall pass through a No. 325 sieve. Volatile matter shall be essentially water. Physical and performance tests are also specified.

Liquid Furniture Polish (P-P-552)

The polish shall be free from abrasives and suitable for use on finishes on wood and metal furniture. It shall have no objectionable odor. It shall be a stable colloidal emulsion of oil in water. It shall be a free-flowing fluid that can readily be applied with a cotton cloth and easily spread. Non-volatile matter shall be not less than 40 per cent by weight, and shall be essentially a well-refined petroleum Ash content, based on nonvolatile matter, shall be not more than 1 per cent by weight. Volatile matter shall be essentially water. No free caustic alkali shall be present. The saponification number shall be not more than 30. Physical and performance tests are also specified.

Metal Polish (P-P-556a)

Metal polish shall be of the following types:

Type I. Powder.
Type II. Liquid

Type III. Paste.

Metal polish of each type shall be of but one grade. It shall be a product, with or without a finely divided abrasive, suitable for the removal of tarnish from brass, nickel, copper, and other metals and capable of producing a luster thereon.

All types of metal polish shall have good tarnish removing properties, good luster-producing properties, shall give good protection to the polished surface against tarnishing influences, and shall be so constituted and prepared that, by reason of application and polishing, they—

- (1) Shall not scratch metals.
- (2) Shall not leave the metal discolored or caked with abrasive material.
- (3) Shall not be detrimental in any manner to metals.
- (4) Shall not show any unnecessary caking of type I or III polish in the containers. The abrasive material in liquid (Type II) polish, shall show no caking in the container, which cannot be readily put into suspension by thoroughly shaking the containers. The abrasive material shall be of such particle size that 100 per cent will pass through a No. 200 sieve.

Metal polish shall be free from acids, cyanide of potassium or other cyanides, grit, or other ingredients having detrimental effects on metals. Shall clean quickly, leaving a bright polished surface. with a full luster for the material being polished. When so specified the tarnish-removing and lusterproducing properties shall be equal in quality to those of a standard sample furnished or approved by the purchaser. The polished surface shall remain free from corrosion or discoloration for a period of at least 24 hours.

Polish shall have good keeping qualities and be guaranteed for 1 year from the date of actual receipt at point of delivery. During the guaranty period the successful bidder shall replace without cost any metal polish which through deterioration, evaporation, caking in the container, or other causes, becomes unfit for use. Replacement metal polish shall also be guaranteed for 1 year from date of receipt. The metal polish will be stored in original unopened shipping containers, not subjected to freezing temperature or to excessive artificial heat. The amount of volatile matter, at 105° to 107° C., in either type II or III polish, shall not exceed 70 per cent by weight, of the polish. The flammability of the liquid contents of types II and III polishes shall not be not less than 39° C.

Silver Polish (P-P-571b)

Silver polish shall be of the following types:

Type I. Liquid.

Type II. Paste.

Type III. Powder.

Silver polish shall be of but one grade, and shall consist solely of finely ground diatomaceous or infusorial earth, prepared as a powder (Type III) or suitably compounded with a neutral soap, to produce a liquid (Type I) or paste (Type II).

All types of silver polish shall have—

- (a) Good tarnish-removing properties.
- (b) Good luster-producing properties and shall be so constituted and prepared that by reason of application and polishing, they—
- (1) Shall not scratch silver-
- (2) Shall not leave silver discolored.
- (3) Shall not leave any resi due (which will cause discoloration) not removable by washing in warn soapy water.
- (4) Shall not show any unnecessary caking of Type II or III polish in the containers. The abrasive material in liquid (Type I) polish, shall show no caking in the container which cannot be readily put into suspension by thoroughly shaking the containers.

The diatomaceous or infusorial earth in all types of silver polish shall be of such particle size that 100 per cent will pass through a No. 200 sieve.

Silver polish shall be free from acids or cyanides. Shall clean quickly leaving a bright polished surface, with a full luster for the material being polished. It shall have good keeping qualities and be guaranteed for 1 year from the date of actual receipt at point of delivery. During the guaranty period the successful bidder shall replace, without cost, any silver polish which through deterioration, evaporation, caking in the container or other causes, becomes unfit for use. Replacement silver polish shall also

be guaranteed for 1 year from date of receipt. The silver polish will be stored in original unopened shipping containers not subjected to freezing temperature or to excessive artificial heat. The amount of volatile matter, at 105° to 107° C., in either Type I or II polish, shall not exceed 70 per cent by weight, of the polish. The flammability of the liquid contents of Types I and II polishes shall be not less than 39° C.

Stove Polish (P-P-576)

Stove polish shall produce a deep, lustrous black color when applied as directed by the manufacturer. It shall produce no odors upon burning and shall produce a durable coating that will not readily be burned off.

Type I.—Polish, stove, liquid, shall be of such consistency that the addition of a fluid will not be necessary in order to make it free-flowing. The vehicle of the polish shall be a non-inflammable liquid.

Type II. — Polish, stove, paste, shall be non-inflammable and shall be of such consistency that it can be readily applied.

Type III. — Polish, stove, powder, shall readily form a paste with water, and shall be non-inflammable.

Type IV. — Polish, stove, cake, shall readily disintegrate in water and form a paste and shall be non-inflammable.

Scouring Powder for Floors (P-P-591a)

Scouring powder for floors shall be of the following types, as specified: Type I—for fine marble floors; Type II—for tile or ceramic and terrazzo floors; Type III—soap scouring compound.

Type I—(For fine marble floors).

Matter volatile at 105° ±2° C. shall not exceed 10 per cent. The sum of sodium carbonate (Na₂ CO₃) and anhydrous soap and/or active anhydrous salt-free synthetic detergent shall not exceed 7 per cent nor be less than 2 per cent.

Free alkali, calculated as sodium hydroxide (NaOH) shall not exceed 0.1 per cent. Insoluble siliceous material shall be not less than 85 per cent nor more than 95 per cent. All of the insoluble siliceous material shall pass through a No. 100 sieve, and the residue retained on a No. 200 sieve shall not exceed 5 per cent. The material shall not scratch nor discolor marble.

Type II—(For tile or ceramic and terrazzo fioors).

Matter voiatile at 105° ±2° C. shall not exceed 10 per cent. The sum of sodium carbonate (Na2 COs) and anhydrous soda soap and/or active anhydrous, salt-free synthetic detergent shall not be less than 2 per cent. Free alkali, calculated as sodium hydroxide (Na OH), shall not exceed 0.1 per cent. Insoluble siliceous material shall be not less than 80 per cent nor more than 95 per cent. The insoluble siliceous material shall not yield more than 1 per cent of residue retained on a No. 60 sieve and not mor. han 10 per cent of residue retained on a No. 80 sieve.

Type III — (Soap scouring compound).

Matter volatile at 105° ±2° C. shall not exceed 6 per cent. Carbonated alkali, calculated as sodium carbonate (Na2CO3) shall not be less than 6 per cent nor more than 20 per cent. Free alkali, calculated as sodium hydroxide (NaOH), shall not exceed 0.1 per cent. Anhydrous soap and/or active anhydrous saltfree synthetic detergent shall be not less than 3 per cent nor more than 10 per cent. Insoluble siliceous material shall be not less than 60 per cent nor more than 90 per cent. The insoluble siliceous material shall not yield more than 1 per cent of residue retained on a No. 60 sieve and not more than 10 per cent of residue retained on a No. 80 sieve.

Scouring Powder for Glass (P-P-596a)

Shall be a fine, uniform powder, and shall be suitable for cleaning highly polished glass surfaces which must transmit light efficiently, such as cabin windows and windshields of aircraft.

The material shall clean glass surfaces satisfactorily without scratching the glass or leaving an oily or other film on the surface. The material shall be a uniform, freeflowing powder, shall be scented or unscented, and shall be white or light gray in color. Matter volatile at 105° ±2° C. shall not exceed 4 per cent. Alkali as alkaline salts (total alkalinity of matter insoluble in alcohol), calculated as sodium carbonate (Na2CO2), shall not exceed 5 per cent. Free alkali, calculated as sodium hydroxide (NaOH), shall not exceed 0.1 per cent. Insoluble siliceous material shall be not less than 85 per cent nor more than 93 per cent, and shall consist of ground feldspar or other insoluble siliceous abrasive that will not scratch highly polished glass surfaces. All of the insoluble siliceous material shall pass through a No. 200 sieve. Rosin, sugar, and foreign matter shall not be present. Anhydrous soda soap shall be not less than 4 per cent and shall be within 1 per cent of the difference between 100 and the sum of the matter volatile at 105° ±2° C., insoluble siliceous material, and alkali as alkaline salts.

Floor Oil; Mineral (P-O-361)

Floor oil shall be a straightrun petroleum distillate suitable for use on wood floors. It shall have no objectionable odor; and may be perfumed with cedar oil, pine oil, or similar materials, when specified. It shall be a clear well-defined petroleum oil free from sediment and other foreign material, and shall meet the following requirements:

The viscosity shall be not less than 70 nor more than 110 seconds (Saybolt Universal) at 100°F. The flash point shall be not less than 300°F. (open cup). The color shall be not darker than 3 N. P. A. (Lemon pale) (ASTM No. 3). The pour point shall be not more than 30°F. The saponification number shall not exceed 1.

Floor Wax; Solvent-Type, Liquid (With Resins) (P-W-134)

The liquid wax shall dry to a film that polishes easily to a hard lustrous flexible surface. It shall not be so highly colored as to stain the surface, and shall dry within 45 minutes to a semi-transparent, nontacky film which shall show no signs of whiteness. It shall consist essentially of blended waxes with small amounts of resins in a volatile organic solvent. It shall be a heavy bodied liquid mixture of sufficient fluidity to permit freedom of application at 20° to 25° C. There shall be no appreciable settling of the suspended material. The liquid wax shall be smooth and shall be free from hard particles and granules.

Nonvolatile Matter (Total Solids).—There shall be not less than 11%, by weight, of nonvolatile matter in the liquid wax. The nonvolatile material shall meet the requirements shown in the table above:

Volatile Organic Solvent (Vehicle).—Shall consist of turpentine or volatile petroleum distillates, or any mixture thereof. The flash point of the volatile solvent shall be not less than 28° C. (closed cup).

Physical and Performance Tests.—Shall meet tests specified in paragraph F-2b.

Water Emulsion Floor Wax P-W-151b)

New proposed Federal Specification.

The floor wax shall dry to a non-tacky, lustrous finish without rubbing, buffing, or polishing. The film produced shall adhere firmly to the surface without checking, cracking, or peeling and shall be transparent and practically colorless. The floor wax shall be suitable for use on sealed floors and resilient flooring of all kinds. It shall have no objectionable odor. It shall be a stable aqueous colloidal emulsion of waxes. The emulsion shall be a free-flowing fluid that can readily be applied with an applicator such as lamb's wool, cotton cloth, or a mop to spread easily and uniformly.

The floor wax shall meet the following requirements:

Nonvolatile matter (total solids).—Shall be not less than 12 per cent.

Wax content and softening point.—The wax content of the total solids shall be not less than 65 per cent, by weight, and shall have a softening point of not less than 80°C.

Ash content (based on non-volatile matter content).—Shall not exceed 3.5 per cent.

Volatile solvents. — Shall be free from petroleum distillates and other organic volatile solvents. The distillate shall consist of not less than 99 per cent of water.

Sediment.—Shall be not more than 2 per cent (by volume).

Alkalinity. — The pH range shall not be greater than 10.0 nor less than 7.0.

Stability. — Shall show no gelling or separation.

Physical and performance tests are also provided.

Floor Wax (P-W-158)

New proposed revised Federal Specification.

The product shall dry to a film that polishes easily to a hard lustrous flexible surface. It shall not be so highly colored as to stain the surface; and shall dry within 45 minutes to a semitransparent non-tacky film which shall show no signs of whiteness. Floor wax shall consist essentially of blended waxes in a volatile organic solvent. It shall be free from rosin.

Type I (liquid)—Shall be a heavy bodied liquid mixture of suitable consistency to permit freedom of application at 20° to 25° C. There shall be no appreciable settling of the suspended material. The liquid wax

shall be smooth and shall be free from hard particles and granules. There shall be not less than 11 per cent, by weight, of non-volatile matter in the liquid wax. The nonvolatile matter shall meet the following requirements:

Minimum Maximum
Softening point 75°C. —
Ash content, per cent. . — 0.5

The solvent shall consist of turpentine or volatile petroleum distillates, or any mixture thereof. The flash point of the volatile solvent shall be not less than 28° C. Physical and performance tests are also provided.

Type II (paste).—Shall be a semi-solid material at 20° to 22° C. There shall be no separation of liquid from paste. The paste shall be smooth and shall be free from hard particles and granules. There shall be not less than 20 per cent, by weight, of non-volatile matter in the paste wax. The nonvolatile material shall meet the following requirements:

Minimum Maximum
Softening point 71°C. —
Ash content, per cent.. — 0.5

The vehicle shall consist of turpentine or volatile petroleum distillates, or any mixture thereof. The flash point of the volatile solvent shall be not less than 28° C. Physical and performance tests are also provided.

Floor Sealer (Lacquer Type) (TT-S-171)

The manufacturer is given wide latitude in the selection of raw material and processes of manufacture, provided that the sealer produced meets the requirements and tests. The product, when applied in accordance with directions shall satisfactorily seal the pores of the wood leaving the wood surface in such

Requirements for Non-Volatile in P-W-134

	Minimum	Maximum
Softening Point	71° C	
Acid Value		18
Saponification Value	40	85
Iodine Number (WIJS)	15	22
Ash Content, Per Cent		0.5

condition as to provide a satisfactory foundation for a finishing material such as varnish, liquid or paste wax or water-emulsion wax. It shall be "natural" in color and of sufficient fluidity to permit application with a bristle brush or lamb's wool mop.

The floor sealer shall be a clear liquid free from sediment or suspended matter and shall be of such fluidity that no further thinning will be required. It shall meet the following requirements:

Nonvolatile matter.—Not less than 14 per cent.

Set-to-touch. In not more than 15 minutes.

Dry hard and tough.—In not more than 3 hours.

Nitrocellulose.—Not less than 20 per cent by weight of the nonvolatile content.

Toughness. — Air-dried film on metal shall withstand rapid bending over a rod 3 mm. (1/2 inch) in diameter.

Viscosity. — Not more than 0.220 poise.

Performance tests are also specified.

Wood and Cork Floor Sealers (TT-S-176a)

Floor sealers shall be furnished in one grade and two classes for use on wood and cork floors as follows: Class 1 — minimum nonvolatile content 40 per cent; Class 2 —minimum nonvolatile content 25 per cent. The manufacturer is given wide latitude in the selection of raw materials and processes of manufacture, provided that the sealer produced meets the requirements and tests described in this specification.

When applied in accordance with directions the product shall satisfactorily seal the pores of the flooring by absorption, leaving no apparent surface film and shall provide a satisfactory foundation for a finishing material such as varnish, liquid or paste wax, or water-emulsion wax. Unless otherwise specified, floor sealer shall be furnished

"natural" in color. Floor sealer shall have sufficient fluidity to permit application with a bristle brush or lamb's wool mop.

Both classes of sealers shall be nonpigmented materials and shall be capable of being thinned with turpentine or mineral spirits. The respective sealers shall meet the following requirements: Nonvolatile matter—Class 1, not less than 40 per cent; Class 2, not less than 25 per cent. Set to touch—in not less than 1 hour and not more than 4 hours. Dry, hard and tough—in not more than 18 hours. Water test—The sealer shall meet specified cold water

Toughness—Shall pass a 75 per cent Kauri reduction test at 25° C. (77° F.).

Flash point—Shall be not below 30° C. (86° F.). (Closed-cup.)

Viscosity at 25° C.—Class 1, not more than 0.50 poise; Class 2, not more than 0.220 poise.

Skinning—Shall be negligible when received and after 48 hours in a tightly closed half-filled container.

Odor—The odor in the can, during drying, and/or after drying shall not be abnormally offensive or disagreeable.

Performance tests are also specified.

Liquid Insecticide (Fly Spray) (O-I-541a)

The insecticide shall not cause irritation to man nor be poisonous to man when applied in the usual manner. It shall have no greater detrimental action on metal or paint surface than a specified test solvent. It shall have no objectionable odor. It shall be formulated from a petroleum distillate base, free from kerosene odor and practically free from all odor, shall be clear and free from suspended matter and shall contain active ingredients so that it will test not more than 2 per cent below the O.T.I. in average percentage knockdown and at least 16 per cent above the O.T.I. in average percentage kill.

Initial boiling point shall not

be below 350° F. and end point not above 530° F. Flash point shall be not less than 125° F. (closed cup). No residual odor shall be present, under a specified test. The product shall meet specified test for staining properties and corrosion.

Liquid Insecticide (Household) (O-I-546a)

The specification follows closely along the lines of the specification for O-I-541a, with an addition requirement as follows, covering minimum pyrethrin content. "There shall be not less than 0.13 gram of Pyrethrin I with the normally acompanying amount of Pyrethrin II in 100 ml. of the liquid insecticide. Any additional ingredients which when incorporated in the product will comply with the requirements of this specification may be used to bring the strength of the product up to the performance requirements." The performance test specifies that it must test not more than 2% below the O.T.I. in knockdown and at least equal to the O.T.I. in kill.

Shaving Cream and Soap (FFF-C-641)

Shaving soap and cream shall be of the following types and classes:

Type I. Soap:

Class (A)—Cakes.

Class (B)-Stick.

Class (C)-Powder.

Type II. Cream:

Class (A)—Lather cream.

Class (B)—Brushless

cream.

Shaving soaps, Type I, shall be high-grade products free of caustic alkalinity that yield a heavy, creamy lather that will remain moist upon the face until the shaving is completed. In the case of Class B (stick), the soap shall adhere to the face when the stick is moistened and rubbed thereon. In the case of class C (powder), the material shall be free-flowing and shall not cake in the container.

Lather cream — Class A, shall be a soft, uniform cream or

Detail Requirements for Shaving Soap

TYPE I		s A and B and stick	Class C powder	
	Min.	Max.	Min.	Max.
	Per Cent	Per Cent	Per Cent	Per Cent
Matter volatile at 105° C	_	10	_	2
Matter insoluble in hot 95 per cent ethyl alcohol	_	.8	_	.8
Free alkali	_	None	-	None
Free fatty acids (calculated as stearic acid)	-	1.0	_	1.0
Matter insoluble in hot distilled water	-	.4	-	.4
Anhydrous soap (calculated as potash soap)	87	_	96	_
Amount passing a No. 20 sieve	_	-	100	_

Detail Requirements for Shaving Cream

TYPE II		A lather ream	Class B brush- less cream		
	Min.	Max.	Min.	Max.	
To the	Per Cent	Per Cent	Per Cent	Per Cent	
Moisture (toluene distillation method)	_	50	-	70	
Matter insoluble in hot 95 per cent ethyl alcohol	-	.3	_	-	
Free alkali	_	None	_	None	
Free fatty acid (calculated as stearic acid)	_	6.5	15	_	
Matter insoluble in hot distilled water	_	.3	-	_	
Anhydrous soap (calculated as potash soap)	40	_	-	-	

paste free from free alkali. It shall distribute well into the bristles of a shaving brush and shall yield a heavy creamy lather that will remain moist upon the face until the shaving is completed.

Brushless cream—Class B shall be a soft, uniform cream or paste free from free alkali.

Type I. Shaving soap, Classes A, B, and C-

Color—shall be as specified by the purchaser. Odor—shall be pleasant and shall be as specified by the purchaser. Lathering quality—shall be satisfactory. Shall conform to the following test:

Shake 100 ml of a 0.2 per cent (based on the nonvolatile matter) solution of the soap (Type I, classes, A, B, and C and Type II, class A) in distilled water at room temperature in a stoppered 200-ml graduated cylinder 30 times in 15 seconds, and let stand at room temperature for 1 hour. The volume of foam above the liquid shall extend to the top of the cylinder and shall not decrease more than 10 per cent of its original volume in 1 hour.

Caking (Class C only)—The material shall be free-flowing and shall not cake in a closed container at room temperature.

Type II. Shaving cream. Classes A and B—

Color—shall be as specified by the purchaser. Odor—shall be pleasant and shall be as specified by the purchaser.

Lathering quality (Class A only)—shall be satisfactory. Shall conform to the test described above.

Type I. Shaving soap, Classes A, B, and C—shall conform to the detail requirements shown in the accompanying table.

The percentage of volatile matter shall be computed, and reported on the soap as received. The percentages of all other constituents shall be calculated and reported on an assumed volatile matter content of 10 per cent for Classes A and B and of 2 per cent for Class C.

Technical Trisodium Phosphate (O-T-671a)

Technical trisodium phosphate shall be a white, uniform product and may be either granular, flake, or crystalline. It shall contain not less than 98 per cent of trisodium phosphate calculated as Na₃PO₄.12H₂O, from the total phosphoric anhydride (P₂O₅). It shall conform to the following detail requirements:

		Maximum Per Cent
Trisodium phosphat		
calculated as Na ₃ PO 12H ₃ O, from tota P ₃ O ₅	. 98	-
methyl orange, calculated as Na ₈ O	. 16	19
Phosphoric anhydric (P ₂ O ₆)	. 18.3	-
Matter insoluble i		0.1

Proposed Revisions For Mechanical Dishwashing Compound.

The following specification for mechanical dishwashing compound is now under revision. The following draft was approved for interim procurement by the Bureau of Federal Supply, Apr. 26, 1949. It supersedes part of Federal Specification P-D-236, dated November 18, 1941.

Dishwashing compound covered by this specification shall be of the following types, as specified:

Type I.—For hard water. (This compound is for use in mechanical dishwashing machines supplied with water above 120 ppm hardness, calculated as calcium carbonate (above 7 grains per gallon hardness).)

Type II.—For soft water. (This compound is for use in mechanical dishwashing machines supplied with water 0 to 120 ppm hardness, calculated as calcium carbonate (0 to 7 grains hardness per gallon).)

General Requirements: Material. — Dishwashing compound shall be manufactured from materials of at least technical grade and shall include any free-flowing form such as powder, granule, and flake. It shall be suitable for use in spray-type mechanical dishwashing machines. Stability.—When tested, 95.0 percent minimum shall pass through a No. 10 standard sieve. Odor. — Dishwashing compound shall be free from objectionable odor

Table I.-Composition for Dishwashing Compound

,	Percent (by weight)		
Constituents	Minimum	Maximum	
Moisture		25	
Alkali (as NagO)	. 30	48	
Phosphates (as P2O5)	. 18		
Silicates (as SiO ₂)	. 8		
Carbonates (as CO ₂)		20	
Insoluble matter		1	
Total of P2O5, SiO2, and CO2	. 35		
Total of Na ₂ O, P ₂ O ₅ , SiO ₂ , and CO ₂	. 70		

in either dry form or in solution. Abrasion.—Use of the product shall produce no abrasion or undue wear on surface of utensils, dishes, or dishwashing machine. Toxicity.-The alkaline salts used in formulating dishwashing compound shall not be contaminated with toxic amounts of poisonous compounds such as those of arsenic, lead, mercury, antimony, etc. Composition.-The composition of the material shall be as shown in table I. Other constituents. -Total other constituents, including chlorides (as NaCl), sulfates (as Na2SO4), and other constituents not listed in table I, shall not exceed 3 percent. pH and buffer capacity.-The compound solution shall have an initial pH of not less than 10.5 and not higher than 12.5. The addition of the equivalent of 10 milliliters of 0.1N hydrochloric acid shall not reduce the pH of the solution to less than 9.0.

Foaming.-No foam or suds shall be detected. Water softening capacity.-The hard water shall be softened completely. Turbidity .-The weight of precipitate obtained shall not exceed 15 milligrams. Corrosion.-Aluminum test specimens shall not be discolored or etched, nor shall a dense white film be formed on the surfaces. Slight dulling of the surfaces or formation of a faint white film on the test specimens, shall not be interpreted as evidence of non-conformity with requirement. Fineness.-The particle size of mechanical mixtures of ingredients shall be normally uniform in order to minimize segregation of the ingredients. Not less than 95.0 percent of the material shall fall

within one of the following ranges:

				0	
Pass	ing		1	Retain	ed
No.	10	and	No.	110	
No.	16	and	No.	170	
No.	20	and	No.	200	
No.	25	and	No.	270	

Composition

Matter insoluble in distilled water.-A sample of approximately 2.5 g. (weighed to the nearest centigram) shall be dissolved in 500 ml of warm (55° to 65°C.) distilled water. The solution shall be permitted to stand for 15 minutes with occasional stirring. If appreciable turbidity is present, or undissolved matter remains, the solution shall be filtered through a tared Gooch crucible. The beaker and the residue on the filter shall be washed with five 10-ml portions of warm (55° to 65°C.) distilled water, the residue being transferred quantitatively to the filter. The crucible and contents shall be dried to constant weight at 100° to 105°C., and the percentage of insoluble matter calculated. In the event that the sample dissolves completely without appreciable turbidity, filtration and weighing may be omitted and insoluble matter reported as "not appreciable."

Federal Specification For Insecticide-Concentrate; Liquid, Water-Emulsifying (DDT—Nonexplosive Solvent— Emulsifying Agent)

Appearance. — The insecticide-concentrate shall be clear, homogeneous, and free from particles of undissolved DDT crystals or foreign matter. The appearance

of the concentrate shall not be affected when tested as specified.

Chlorine content.—The insecticide-concentrate shall contain a minimum of 120 milligrams of chlorine per milliliter.

Emulsion stability. — The emulsions formed shall show not more than 5 milliliters of separation when tested at 80°F., nor more than 10 milliliters of separation when tested at 120°F., 30 minutes after formation and after reformation.

Flash point.—The flash point of the finished concentrate shall be not below 140°F.

Staining properties. — There shall be no residual stain when the insecticide-concentrate is tested as described.

Residual odor.—There shall be no more than a slight, mild residual odor when the insecticideconcentrate is tested as described.

Distillation range.—The solvent shall have an initial point not less than 300°F., and an end point not higher than 550°F.

Effect on metals.—The insecticide-concentrate shall cause no more than a slight discoloration of mild steel strips.

Effect on plastics.—The insecticide-concentrate shall cause no crazing or softening of strips of polymethyl methacrylate.

Chlorine content.-With all ingredients at 77°F., pipette accurately 5 milliliters of the concentrate into a 100-milliliter volumetric flask and make to volume with 99 percent isopropyl alcohol. After mixing well, pipette accurately 10.0 milliliters of this alcoholic solution into a clean, dry, 300-milliliter flask with a standard tapered neck, add 15 milliliters of 99 percent isopropyl alcohol and 2.5 grams of metallic sodium cut into small pieces, and swirl the flask in order to mix its contents. Connect to a water-cooled reflux condenser and boil gently for at least 1/2 hour, swirling occasionally. Decompose the excess sodium by cautiously adding 10 milliliters of 50 percent isopropyl alcohol through the condenser at a rate of 1 to 2 drops per second. Boil for an addi-

tional 10 minutes and then add 60 milliliters of distilled water. Add 5 milliliters of 30 percent hydrogen peroxide, a few drops at a time, through the top of the condenser. Heat the mixture in the flask to boiling and boil for 15 minutes. Add 5 milliliters more of 30 percent hydrogen peroxide and boil again for 15 minutes. Cool to room temperature, add 2 to 3 drops of phenolphthalein solution, neutralize by adding nitric acid (1:1), and add 10 milliliters of diluted acid in excess. Cool and transfer the solution quantitatively to a small separatory funnel and shake vigorously with 15 milliliters of iso-amyl alcohol-ethyl ether solution (1:1). Draw off the aqueous layer into a second separatory funnel and extract again with another 15-milliliter portion of the extract mixture. Draw off the aqueous layer into a 400-milliliter beaker. Wash the two organic extracts successively with 10 milliliters of distilled water, and add the wash water to the beaker. Repeat with a second 10-milliliter portion of distilled water, and add dropwise, with stirring, a measured excess (25 ml. approximately) of 0.1N silver nitrate solution. Coagulate the precipitate by heating on a steam bath for approximately 1/2 hour. Cool to room temperature and filter through a No. 42 Whatman filter paper and wash thoroughly with distilled water, receiving the filtrate in a 500-milliliter Erlenmeyer flask. Add 5 milliliters of ferric ammonium sulfate indicator solution and titrate the excess AgNO₃ with 0.1N KCNS solution. Compute the net number of milliliters of 0.1N AgNO3 consumed by the sample.

Then if, a = milligrams of chlorine per milliliters of concentrate, and b = net number of milliliters of 0.1N AgNO₀ consumed by the sample

 $a = b \times 7.092$.

Note 1.—A blank determination (without sample) should be made following the exact procedure given above but limiting the 0.1N AgNO_a solution to 5 milliliters in order to obtain a chloride correction value for all reagents used.

Stability at 80° ± 5°F.— Bring the sample of liquid concentrate and 80 milliliters of hard water

to a temperature of 80° ± 5°F. Then pipette 20.0 milliliters of the concentrate into the hard water, forming a 1 to 4 dilution. Stir vigorously by hand (using a stirring rod) while the concentrate is being added and for 60 seconds afterwards. Record the time of initial formation. Pour the emulsion thus formed into a 100-milliliter graduated mixing cylinder, stopper the cylinder, and set it aside for exactly 30 minutes (note 2). Immediately after that period examine the emulsion carefully under strong transmitted light for signs of separation of phase or sediment and record the percentage separation by volume if present. Allow the emulsion to stand at the test temperature for 24 hours. Then reform the emulsion by inverting and righting the stoppered cylinder through 30 complete cycles. Exactly 30 minutes after the emulsion has been reformed, examine again under strong light and record the re-

Note 2.—Breaks in the emulsion are often difficult to detect when they first occur. If the emulsions are examined carefully once or twice during the 30-minute period after formation, observation of the darkening or lightening of the various portions will make the detection of the initial break easier. These examinations should be made by holding the cylinder in front of a strong light.

Hard water. — The hard water specified shall have the following composition:

CaCl₈.2H₂O 0.2345 gram. MgCl₈.6H₂O 0.268 gram. H₂O (distilled) to make 1 liter.

Stability at $120^{\circ} \pm 5^{\circ}$ F.— The test procedure specified shall be repeated with the exceptions that (1) the ingredients and emulsion shall be kept at a temperature of $120^{\circ} \pm 5^{\circ}$ F., and (2) the emulsions shall be reformed after 2 hours rather than 24 hours.

Flash point.—The flash point shall be determined with the Tag closed tester in accordance with method 110.1.3 of Federal Specification VV-L-791.

Staining properties and residual odor.—A 6-inch square of bleached cotton sheeting shall be immersed in the diluted concentrate (1 part of the concentrate to 4 parts of water), the sheeting thoroughly wetted, wrung to remove excess liquid, and hung up to dry for 48 hours in a well ventilated room. At the end of 48 hours, the treated section of sheeting shall be examined and compared to a similar untreated piece of sheeting for staining and residual odor.

Distillation range.—Approximately 250 grams of the concentrate shall be distilled under reduced pressure (29 inches of mercury approximately). Ten to fifteen grams of anhydrous sodium sulfate shall be added to the distillate, the container shaken, corked, and allowed to stand overnight to remove moisture. The distillate shall then be filtered and the filtrate distilled in accordance with method 100.1.6 of Federal Specification VV-L-791.

Effect on metals.—Place a polished strip of mild steel (S.A.E. 1020) in a clean, dry test tube, add sufficient liquid concentrate to immerse the specimen completely, and stopper the test tube with a clean cork. Place in an oven maintained at 122° ± 5°F. After 3 hours, remove the strip, rinse with sulfurfree acetone, and examine for signs of corrosion (discoloration or pitting).

Effect on plastics.—Place a strip of polymethyl methacrylate in a clean 300-milliliter Erlenmeyer flask. Add 100 milliliters of emulsion prepared as specified in paragraph F-3c(1), stopper the flask, and place on a mechanical agitator. After 4 hours, remove the strip, rinse under running water, allow to dry, and examine for any visual effects due to exposure to the emulsion.

Federal Specification For Dichlorodiphenyltrichloroethane (DDT)

Types and Grades

DDT covered by this specification shall be of but one type and

TABLE I.—Chemical and Physical Properties (DDT).

	Grade	A, aerosol	Grade B,	technical
Properties	Minimum	Maximum	Minimum	Maximum
Setting point, °C		*****	89	
Melting point, ° C	103	*****		
Organic chlorine, percent by weight.		50.5	48	51
Ash content, percent by weight		0.05		0.5
Chloral hydrate, percent by weight		0.025		0.025
pH by extraction		7.5	5.0	8.0
Water soluble material, percent by weight		0.05	*****	0.25
Cyclohexanone insoluble, milliliter		*****		0.2
Monofluorotrichloromethane insoluble, milliliter		0.01	*****	

of the following grades, as specified in the invitation for bids:

Grade A.—Aerosol.
Grade B.—Technical.

Material

Each grade shall comprise 2,2-bis (p-chlorophenyl)-1, 1,1-trichloroethane, free from added modifying agents, and shall comply with the detail requirements for the applicable grade.

Detail Requirements

E-1. Chemical and physical properties.—The chemical and physical properties shall conform to the requirements in table I.

Grade A, aerosol.—Grade A material shall be a fine white cystalline powder, free flowing and without lumps.

Grade B, technical.—Grade B material shall be a fine-to-medium granular powder with a white-to-cream color.

Setting point.—Transfer 30 ± 0.1 grams of sample into a heavywall, rimless, ignition tube of heatresistant glass, 25 millimeters in inside diameter by 200 millimeters long (Corning No. 9860 or equivalent). The tube and its contents shall be supported in an oil bath maintained at 115° to 120°C. When the DDT has almost all become molten, a glass ring stirrer and an accurate thermometer graduated in fifths of a degree (A.S.T.M. standard thermometer 70° to 160°C, or equivalent) shall be fitted into the tube through a two-hole cork stopper.

While the DDT is being heated, a round, wide-mouth, 8-ounce glass sample jar (approximately 2 inches in diameter and 5 inches high) shall be clamped upright in a water bath maintained at 70° ± 2°C. The jar shall be kept approximately 80 percent immersed throughout the entire determination and its mouth shall be fitted with a cork stopper into which one hole (just large enough to admit the tube containing the molten DDT) has been bored. When the DDT has melted completely and has reached a temperature of 115° to 120°C., transfer the test tube and its contents from the oil bath to the water bath-sample jar system, fitting the length of the tube down into the jar through the one-holed cork stopper so that the bottom of the tube is approximately 15 millimeters from the bottom of the sample jar. The liquefied sample shall now be stirred continuously, using the glass ring stirrer until the point of maximum super-cooling has been reached and the temperature has begun to rise. Thereafter, the stirring shall be by means of the thermometer. All stirring shall be at the approximate rate of 100 strokes per minute (1 up and down = 1 stroke) all strokes to be 3 to 4 centimeters in length, without breaking the upper surface of the sample. The liquefied material shall be stirred while it supercools. When the temperature drops to 89°C. a small amount of the sample of DDT being tested may be added as seed crystals if none have already formed in the test tube. After the material begins to crystallize, the temperature rises. At this point the stirring shall

be stopped momentarily every 15 seconds and a temperature reading taken. The highest temperature reached after the point of maximum supercooling shall be taken as the setting point. The test shall be discontinued after two successively lower readings after the point of maximum supercooling.

Melting point. — Melting point shall be determined by the capillary tube method, using a Thiele-Dennis type, or equivalent, melting tube, heated at a rate not to exceed 0.5°C. per minute. The temperature at which the sample becomes completely clear shall be the melting point.

Organically bound chlorine. -Accurately weigh 1 gram of sample of DDT, transfer to a clean, dry 250-milliliter volumetric flask and add 40 milliliters of chlorineand thiophene-free benzene. Shake until the DDT is dissolved and then make to volume with 99-percent isopropyl alcohol. Mix well and transfer a 25-milliliter aliquot to a clean, dry 300-milliliter flask with a standard tapered neck. Add 2.5 grams of metallic sodium cut into small pieces and swirl the flask in order to mix its contents. Connect to a watercooled reflux condenser and boil gently at least 1/2 hour. Shake the flask occasionally. Decompose the excess sodium by cautiously adding 10 milliliters of 50 percent isopropyl alcohol through the condenser at a rate of one to two drops per second. Boil for an additional 10 minutes and then add 60 milliliters of distilled water. Cool to room temperature, add two to three drops of phenolphthalein solution, neutralize by adding nitric acid (1:1), and add 10 milliliters of the diluted acid in excess. Add dropwise with stirring of the solution a measured excess (25 ml. approximately) of 0.1N AgNO₃ solution. Coagulate the precipitate by heating on a steam bath for approximately 1/2 hour. Cool to room temperature and filter through a No. 42 Whatman filter paper and wash thoroughly with distilled water, receiving the filtrate in a 500-milliliter Erlenmeyer flask. Add 5 milliliters of ferric ammonium sulphate indicator and titrate the excess AgNO₃ with 0.1N KCNS solution. Compute the net number of milliliters of 0.1N AgNO₃ consumed by the sample. Calculate percent chlorine as follows:

ml. 0.1N AgNO_a (consumed) × 3.547 Percent chlorine

weight of sample (grams)
Note:—A blank determination (without sample) should be made following the
exact procedure given about but limiting
the 0.1 AgNO₃ solution to 5 milliliters, in
order to obtain a chloride correction value
for all reagents used.

Ash.—Place a 5-gram sample in a weighed crucible. Burn off or vaporize the DDT under a hood with good ventilation, over a low flame or from a sand bath. When the organic material has been substantially volatilized, cool the crucible and add an excess of 10 percent sulfuric acid. The crucible shall be heated as above to dryness and then ignited in a muffle furnace for 1 hour at a temperature of 800° ± 50°C. Transfer the crucible to a desiccator, cool and weigh.

Determination of pH. — Transfer a 20—±0.1—gram sample of DDT to a 500-milliliter separatory funnel and dissolve in 100 milliliters of benzene. Add 50 milliliters

of freshly distilled, cooled, carbondioxide-free water, stopper, and shake the funnel and contents for 3 minutes. Allow the two phases to separate, and draw off the aqueous layer into a flask. Stopper this flask immediately. Repeat the aqueous extraction twice, using two successive 25-milliliter portions of freshly distilled, cooled, carbon-dioxide-free water. Determine the pH of this extract, using any suitable method. However, in the event of dispute, the results obtained with a calibrated pH electrometer shall govern. Reserve the remainder of this extract for the determination of chloral hydrate and water-soluble material.

Chloral hydrate. — Place 2 milliliters of a sodium hydroxide solution (40 g. in 100 ml. of solution) in a test tube, add 1 milliliter of colorless pyridine and 4 milliliters of the aqueous extract. Similarly treat 4 milliliters of a standard aqueous solution containing 0.05 milligram of chloral hydrate per milliliter in another tube. Shake the two tubes and heat in a boiling water bath for 1 minute. The red color in the pyridine layer of the sample under test shall not be darker than that of the standard.

Water soluble material.—Boil 50 milliliters of the aqueous extract down to a small volume, and dry the residue to constant weight at 105°C.

Cyclohexanone insoluble material.—Place 71 milliliters (67 g.) of cyclohexanone in a calibrated cone-shaped centrifuge tube described in method 300.3 of Federal Specification VV-L-791. Add 33 ± 0.1 grams of DDT, stopper, and shake until the material is dissolved as completely as possible. Centrifuge for 10 minutes at 1,500 revolutions per minute in an international size 1-5b centrifuge or equivalent, using a balanced system. The apparent volume of the separated solids is noted.

Monofluorotrichloromethane insoluble material.—Place 5.0 grams of DDT and 10.0 grams of cyclohexanone in a calibrated centrifuge tube, as above. Stopper, shake until the material is dissolved as completely as possible. Dilute to 100 milliliters with monofluorotrichloromethane. Stopper, shake and centrifuge. The solution in the tube should be clear and give not more than 0.01 milliliter of sediment.



Floor Wax Specification

Official Specification and Standard Test Method of The Chemical Specialties Manufacturers Association

A SPECIFICATION and standard method of testing for water emulsion floor waxes was adopted by the Chemical Specialties Manufacturers Association at a meeting in Cleveland, June, 1943. Specification and method follows:

SPECIFICATION FOR WATER-DISPERSION FLOOR WAX

Applicable to Waxes of from 10 to 15% Total Solids

A. General Requirements

- The material shall be suitable for application to all sealed floors and floor coverings in general.
- 2. The material shall be a stable aqueous colloidal dispersion of waxes and other suitable substances. The composition and properties of the material shall be such that it will meet all of the provisions of the detailed requirements, when tested by the C.S.M.A. test methods.
- When applied in accordance with the manufacturer's direction, the material shall dry to a lustrous finish without polishing.

B. Detailed Requirements

- Sediment. The material shall be a fluid dispersion containing not over 4 per cent sediment, the percentage being calculated on the basis of total solids.
- 2. Stability. The material shall show no gelling or creaming when kept in closed containers at 52° C. (125° F.) for 168 hours (7 days).
- Application. The material is to be applied as a thin, uniform film to clean dry flooring surfaces.
- 4. Color and Transparency. A thin, dried film of the material, prepared by flowing onto a clear glass plate and drying in air at 25° C. (77° F.), shall be substantially transparent and practically colorless, as viewed by transmitted bright daylight.
- Leveling and Spreading. The material, when applied as a thin, uniform film on new linoleum shall dry without streaking.
- Lustre or Gloss. The dried film shall increase the gloss of new linoleum not less than 10 per cent, as measured by a light reflectance meter.
- Alkalinity. The material shall not have a pH greater than 10.0 nor less than 4.0.
- 8. Surface Tension. The material shall have a surface tension not

greater than 33 dynes per centimeter at 25° C. (77° F.).

- 9. Flexibility of Film. The dried film shall be sufficiently flexible so that no cracking will occur when a 2 coat application, on new linoleum, dried 48 hours at 25° C. (77° F.) and 50 per cent relative humidity is bent, through 180° around a 2 inch diameter mandrel.
- 10. Abrasion Resistance. The dried film shall have an abrasion index (Taber cycles divided by weight of film in mgs. per sq. cm.) of not less than 100 when tested on glass plates using a Taber Abraser (Model J or equivalent) with Taber CS-10 Calibrase wheels.
- 11. Tackiness and Slipperiness.
 The dried film shall be neither soft and sticky nor excessively slippery.
- 12. Water Resistance. The dried film on a specified surface, after 48 hours at 25° C. (77° F.) and 50 per cent relative humidity shall be resistant to cold water. The film shall not be permanently whitened or damaged by contact with water for one hour at 25° C. (77° F.). The film shall not be removed by damp mopping with a soft rag using clear water at 25° C. (77° F.).
- 13. Removal of Film. A film dried for 48 hours at 25° C. (77° F.) and 50 per cent relative humidity, on new linoleum, shall be easily removable by moderate scrubbing with a soft bristle brush, using an aqueous detergent solution, containing 0.25 per cent tallow soap chips and 0.25 per cent tallow soap chips and 0.25 per cent aqua ammonia (28 per cent NH²) at a temperature of 50° C. (122° F.).

C.S.M.A. PROPOSED STANDARD METHODS FOR TESTING WATER-DISPERSION FLOOR WAX

Purpose

The purpose of compiling a more or less complete set of methods for testing water-dispersion floor wax is to make available to the manufacturer, user or other interested persons suitable procedures which have proven to be best adapted for the purpose intended. It is the further purpose to limit the methods more or less to test designed to evaluate performance properties rather than to determine composition data. There is a need for such standard methods because even on such a simple test as total solid content, there is a possibility of widely divergent results unless great attention is paid to small details. At present there are no methods accepted as standard by any association or group except as such methods may be part of a specification. Standard methods of testing will make

it possible to eliminate controversies which are now inevitable.

Methods of Testing

- 1. Sediment. Mix the original sample well and pour a 100 cc. portion into a graduated A.S.T.M. water and sediment tube. Centrifuge for 15 minutes at approximately 2,000 r.p.m. Read directly volume of sediment in mls.
- 2. Stability. Measure viscosity of original sample at 25° C. (77° F.) using Oswald type pipet viscosimeter. Pour 100 ml. of the original sample into a 4 oz. bottle approximately 35 mm. inside diameter. Close the bottle securely with a clean cork and allow it to stand undisturbed in an upright position at 52° C. (125° F.) for 168 hours. At the end of this time, cool to room temperature, measure viscosity as before and observe for any creaming, separation or gelling.
- 3. Total Solids. Use a porcelain capsule crucible approximately 5 cm. in diameter and 1 cm. deep for the determination. Heat the capsule to dull red heat, cool in a desiccator, and weigh to the nearest tenth of a milligram. Place in the capsule a sample of from 2 to 3 grams accurately weighed to the nearest milligram, taking suitable precautions to avoid error due to loss of weight by evaporation during transfer and weighing of the sample. Heat the capsule containing the sample on a steam bath for 1 hour, then transfer it to a drying oven and heat for 3 hours at 105° to 110° C. (221° to 230° F.). Cool the capsule in a desiccator and weigh to the nearest tenth of a milligram. Multiply the weight of non-volatile matter by 100 and divide by the weight of the sample to obtain the percentage of non-volatile matter.
- pH Value. Determine the pH of the sample at 25° C. (77° F.) using a glass electrode pH meter without application of correction for sodium or potassium ion concentration.
- 5. Surface Tension. The surface tension of the sample at 25° C. (77° F) may be determined by one of the reliable, established methods for this determination. The ring detachment method is preferred for this test on water-dispersion waxes. Instruments suitable for determination of the surface tension of water-dispersion floor waxes include the Cenco-du Nouy Tensiometers described in Bulletin 101 of the Central Scientific Company.
- 6. Leveling and Spreading. Test panels, 3 x 6 inches, of new brown linoleum of good quality and either 4 inch in thickness shall be used. Before applying the water-dispersion wax to these test panels, thoroughly re-

move any wax coating. Usually this can be done by soaking for five minutes at 50° C. (122° F.) in an aqueous solution containing 0.25 per cent by weight of 88-92 per cent tallow chip soap and 0.25 per cent by weight of 28 per cent aqua ammonia, scrubbing the top surface of the test panels gently with a soft bristle brush or cloth saturated with the above detergent solution at 40°-50° C. (104°-122° F.), rinsing the test panels thoroughly with water at 40°-50° C., draining and wiping the top surface dry with soft clean cloths.

Apply some of the sample to one of the cleaned linoleum test panels, using a small, clean mohair applicator just saturated with the sample, and applying it with light, uniform, overlapping parallel strokes. Note leveling and spreading properties from appearance of dried film.

Place coated linoleum specimen in desiccator or chamber in which humidity is controlled at 50 per cent relative humidity (see Note 1) at a temperature of 25° C. (77° F.) for 48 hours. Then apply a second coat of sample using same technic as above. Note any re-emulsification on applying second coat and leveling and spreading properties from appearance of dried film.

If flexibility of film is required, test can be carried out on same test panel.

7. Drying Time. Flow a uniform film of the sample over the surface of a clear glass plate which has been cleaned by immersion in chromic acid cleaning solution followed by thorough rinsing with clear water. Incline the test plate at an angle of 45° to the horizontal and allow it to drain and dry in this position in air maintained at a temperature of 25° C. (77° F.) and 50 per cent relative humidity. Observe time required for film to become dry to touch at a point 15 mm. above lower horizontal edge. Express drying time as period required to nearest minute. If transparency of film is required, observation can be made on this same test panel.

8. Gloss or Lustre. Use a gloss meter consisting of a light source, of constant intensity, directing a substantially parallel beam at the surface to be tested at an angle of incidence of 45°; a photocell, with a spectrul-response curve approximating the ICI standard luminosity curve, placed to intercept the reflected beam at an angle of reflection of -45°; a sensitive galvanometer for measuring the e.m.f. generated by the photocell. A meter of this description is supplied by Pfaltz & Bauer, Inc., New York City. Calibrate the gloss meter by placing it on an optical flat, made of glass with an index of refraction of nD = 1.5172, 8 mm. thick, with a fine ground back resting on a non-reflecting black surface. Check the instrument before and after all readings on test panels.

Select a test panel of new brown linoleum from which all wax has been thoroughly removed and record the gloss of the test panel. Flow a uniform film of the sample onto this test panel, drain and dry at an angle of 45° in air at a temperature of 25° C. (77° F.) and 50 per cent relative humidity for a period of 24 hours, then measure the gloss of the dried film on the test panel with the calibrated gloss meter. Subtract the gloss reading of the test panel from the gloss reading of the dried film on the test panel, multiply the difference by 100, and divide by gloss reading of the test panel to give the percentage increase in gloss.

As an alternative method particularly intended for control testing, it is proposed that a standard test solution consisting of ammonia-water-shellac or sugar in water be developed so that such solution when applied to a linoleum surface will produce a gloss equivalent to an increase of 100 per cent as determined by the gloss meter.

9. Transparency of Film. Clean a piece of clear plate glass using chromic acid cleaning solution and rinse thoroughly. Flow a uniform film of the sample onto one surface of this glass, and allow it to drain and dry at an angle of 45° in air at a temperature of 25° C. (77° F.) and 50 per cent relative humidity. Observe the dried film from the under side of the glass plate by transmitted bright daylight.

10. Flexibility of Film. Prepare linoleum test panel with 2 coats of sample exactly as described under Leveling and Spreading. Alternately the same test panel may be used for both tests. Determine the flexibility of the film at 25° C. (77° F.) and 50 per cent relative humidity by bending the test panel, with the treated surface on the outside, around a mandrel 2 inches in diameter, through an arc of 180°. Observe the film for any cracking or chipping.

11. Abrasion Resistance. Prepare three discs of \(\frac{1}{6}'' \) thick, clear plate glass, each 4" in diameter with a \(\frac{1}{6}'' \) diameter hole in the center. Clean the discs by the method specified for linoleum test panels. By means of two glass cylinders, one 2" in diameter and one 3%" in diameter, with lower ends ground exactly at right angles to their axes, and dipped into melted paraffin, apply two rings of paraffin to the upper surface of each disc, concentric with the center hole, being careful to avoid contaminating the cleaned glass sur-face between the two rings. Determine the area of the glass surface between the two paraffin rings in sq. cm. by actual measurement with an accuracy of ± 2 per cent. Mark each glass disc for identification, and weigh each accurately in air at 25° C. (77° F.) and 50 per cent relative humidity. Coat the surface between the two paraffin rings on each disc with a thin uniform film of the original sample by applying be-tween 0.5 and 1.0 ml. of the original sample of water-dispersion wax from ml. pipette and spreading it uniformly over the entire surface between the paraffin rings with the tip of the pipette. Dry the coated discs in a horizontal position in air at 25° C. (77° F.) and 50 per cent relative hu-

midity for 24 hours, and weigh the discs again accurately under these conditions. Subtract the original weight and divide the difference in milligrams by the area of the wax film in sq. cm. to give the weight of coating in mg. per sq. cm. Abrade the coating on each disc, at 25° C. (77° F.) and 50 per cent relative humidity, on a Taber Abraser, Model J, using Taber CS-10 Calibrase wheels, until the coating has been worn away from approximately 50 per cent of the area of the abrasion track. Clean the wheels by ten cycles on the carborundum paper cleaning discs after each 100 cycles on the wax surface. Subtract the total number of cleaning cycles from the total number of cleaning and abrading cycles. Divide the number of abrasion cycles required for each disc by the weight of the dried coating in mg. per sq. cm. on that disc to give the wear resistance index.

Tackiness and Slipperiness.
 No satisfactory method has yet been developed.

13. Water Resistance. Prepare a test panel on cleaned new linoleum in the manner described under Leveling and Spreading. Place a large drop of distilled water, 1 to 2 cm. in diameter on the treated surface of the test panel. Allow to stand undisturbed for one hour in air at 25° C. (77° F.) and 50 per cent relative humidity. Shake off any remaining water. Observe whether the wax film is damaged or appreciably whitened by the water. Note whether any visible spotting of the film disappears on drying for ½ hour at 25° C. (77° F.) and 50 per cent relative humidity.

14. Resistance to Damp Mopping. Wet a clean soft cloth with clear water at 25° C. (77° F.). Wipe the entire treated surface of the test panel used in the Water Resistance test with this wes cloth, exerting moderate pressure and wiping five times at intervals of 2 seconds. Then wipe the test panel dry with a clean, soft, dry cloth. Observe whether the wax film is removed by this process.

15. Removability. Prepare a test panel on cleaned new linoleum in the same manner described under Leveling and Spreading. After aging panel for 48 hours, immerse it in detergent solution same as specified under Leveling and Spreading, for 5 minutes at a temperature of 50° C. (122° F.). Then, with a test panel still immersed, scrub its treated surface moderately with a soft bristle brush, making at least 10 strokes of the brush with moderate hand pressure across each portion of the treated surface. Remove the test panel from the detergent solution, rinse it thoroughly with clear water at 40°-50° C. (104°-122° F.), and wipe dry with a soft, clean cloth. Observe the panel for completeness of removal of wax film after drying.

Note 1. A saturated solution of calcium nitrate (Ca(NO*)*4H*O) at 25° C. (77° F.) gives 50 per cent relative humidity.

Peet-Grady Method

Official Method of the Chemical Specialties Manufacturers Assn. for Evaluating Liquid Household Insecticides.

I. INTRODUCTION

HE Peet-Grady Method was adopted as an official test in 1932, and has since been improved in certain details, all improvements have been officially accepted after satisfactory trials. This method of test is a means of determining the relative efficiency of contact insecticides dissolved in fly spray base oils. As a biological test it is subject to variations which accompany the reaction of living organisms and should be employed under the supervision of a person familiar with the biological testing of insecticides. In order to measure with reasonable tolerance the relative position of different insecticides. the test is designed to be used in conjunction with the "Official Test Insecticide" as the basis of compari-

Two methods, or procedures, are permitted. The Small Group method is substantially the same as outlined at the time the test was adopted in 1932 while the Large Group method was officially adopted in 1938. Both methods are being used extensively, and if correctly employed, evaluation by either test may be expected to be in reasonable agreement.

II. APPARATUS

A. Reference Insecticide

The reference insecticide shall be the current Official Test Insecticide (OTI) prepared by the Chemical Specialties Manufacturers Assn. each year. The OTI must not be diluted or changed in any manner.

B. Atomizer

The Special Atomizer No. 5004, constructed by the DeVilbiss Company, Toledo, Ohio, for the C.S.M.A. Standardization Com-

mittee must be used. This atomizer shall be operated with air free of oil, dust particles, or condensed moisture, and maintained at a constant pressure of 12.5 ± 0.5 per sq. in. measured by a gage of not more than 30 pounds capacity or a manometer. The atomizer shall deliver 12 cc. of OTI in 24 seconds (tolerance ± 1 second) and this should be checked frequently. Atomizers failing to meet this test should be repaired by the manufacturer or replaced.

C. Test Insect

The test insect shall be the house fly (Musca domestica, L.) reared from a strain mixed under the supervision of the C.S.M.A. once each year. Healthy test groups having an average age of 4 days are to be used. Individual flies in the test groups shall be not less than 3 nor more than 6 days old at the time of testing. The strain shall be of such susceptibility that the OTI will cause a mortality of from 30 to 55 per cent.

D. Fly Cages

Cages of any convenient type may be used if they provide at least 1 cubic inch of space per fly and at least 2 sides and the top are screened. It is suggested that the base be square in shape to provide maximum floor space. The floor of the cage is preferably detachable, to facilitate cleaning and inserting a paper floor covering. The cages are constructed of wood or other suitable material and 16 mesh wire screening, and are fitted with a sleeve opening, rubber membrane, or a door.

E. Rearing Room

This room may be of any convenient size constructed so as to be free from strong drafts, and maintained at a temperature of 82 ±2 degrees Fahrenheit and relative humidity of 50 ±5 per cent. It should be separate from the testing room in order to eliminate the possibility of traces of insecticide coming in contact with the test insects. Ventilation should be provided to reduce odors and gases from fermenting media.

F. Testing Room

This room may be of any convenient size capable of holding the standard Peet-Grady Chamber and permitting adequate additional space for the operator to handle the test efficiently. While conducting tests, this room shall be maintained at a temperature of 75 to 85 degrees Fahrenheit. It is suggested that relative humidity be held between 40 and 70 per cent. Since the exhaust fan of the chamber will move relatively large quantities of air, the temperature of the air entering this room should be approximately that specified above.

G. Peet-Grady Test Chamber

The Test Chamber shall be rigidly constructed of wood, metal, or other suitable material. The inner surface shall be smooth, impervious to the usual household type of insecticide, and as free from cracks, projections, ledges, etc., as possible. The chamber shall be a 6-ft. cube by internal measurements, with a tolerance of plus or minus 1 in. for any dimension. One wall shall contain a tight-fitting door large enough for a man to enter conveniently, with the interior side flush with the wall when closed. One or more of the walls, or the ceiling, shall contain an observation window, preferably on two opposite walls. Illumination is provided by means of a glass window in the ceiling above which is

placed an electric light of such intensity as to permit flies to be observed easily. An opening covered with 10-mesh wire screen shall be connected to an exhaust fan duct and the size and the location of this opening in relation to ventilation openings in the wall must be such that thorough ventilation of the chamber is obtained. Preferably, the exhaust opening should be 1 sq. ft. or larger and located in or near the ceiling. Air inlet openings may be ports approximately 6 x 6 in. in size, covered with screen on the inside and provided with tight fitting hinged covers on the outside. Four ports located near the 4 lower corners, or 8 ports located near both the 4 upper and 4 lower corners are satisfactory, but the ventilation ports should not be on the same level as the exhaust port. The entrance door may be used alone or in conjunction with the ventilation ports if a screen door is provided and thorough ventilation of the chamber is obtained. If the temperature of the air used to ventilate the chamber is lower than 80° F., heaters may be used to obtain the temperature of 82 ±2° F. required during the test period. Such heaters must be removed before a test is started. Openings shall be provided for the introduction of the insecticide; these must be so constructed and so located that uniform distribution of the spray is effected without undue ventilation of the chamber. These openings may be round 1 in. holes located not less than 6 in. or more than 12 in. from the ceiling and 18 in. from the nearest corner on each wall, or a single hole may be provided in the center of each wall 6 to 12 inches from ceiling.

H. Exhaust Fan

An exhaust fan moving not less than 1,000 cu. ft. of air through the chamber per min. shall be used to ventilate the chamber after each test. It shall be arranged with adequate piping to exhaust the chamber vapors outside of the building.

I. Insecticide Paper

Unsized, non-glazed absorbent paper, such as brown kraft or gray bogus, shall be used to cover the chamber floor. Two overlapping sheets of 36-40 in. width or one sheet of 6 ft. width may be employed. No special weight is specified although 60-80 lb. gray bogus paper has been found excellent.

J. Apparatus for Picking Up Flies

Any convenient means of picking up the paralyzed flies without injuring or appreciably disturbing them may be used. If a vacuum device is used, it must produce gentle suction, have a sufficiently large receptacle to prevent crowding of the flies, and it shall be cleaned after each test with the same materials used in cleaning the chamber.

III. PROCEDURE

A. Rearing and Handling Flies

In this procedure, eggs are transferred to media suitable for the development of larvae, the pupae are collected from the media and placed inside of cages, and the adult flies emerge and remain in these cages until the day of testing.

Larval media: The preferred containers are cylindrical glass battery jars approximately 6 in. in diameter and 9 in. high. For one jar, mix 340 gm. (12 oz.) standard dry larval media, (1) with approximately 750 cc. of an aqueous suspension containing 15 gm. moist cake yeast and 10 cc. non-diastatic Diamalt, (2). Mix thoroughly until a loose, fluffy media is obtained, transfer it to the battery jar without packing, cover with cloth and set in the insectary. The amount of suspension required for best rearing results will need be determined in each laboratory and it may be varied in order to prevent mold growth. It is suggested the media be prepared in the late afternoon of the day before egg collection.

 Mixed quarterly according to C.S.M.A. specifications by the Ralston Purina Co., St. Louis, Mo., on the basis of orders received by the first of January, April, July and October, in 50 lb. bags. Terms—pay on receipt of invoice. (2) Standard Brands Inc. products. These can be obtained from local distributors in most cases.

Eggs: Eggs are collected for a period not longer than 16 hours from food dishes or other oviposition media in cages containing mature flies not more than 8 days old. It is suggested that fresh oviposition media be placed in fly cages in the late afternoon and eggs be collected early on the following morning. After collecting the eggs they must be measured and seeded without delay. Wash the eggs in tap water at room temperature and measure 2000 eggs as accurately as possible. This may be done by allowing the eggs to settle in a calibrated pipette or graduate (0.1 cc. settled eggs contains about 700) or the eggs can be filtered and measured in calibrated pits or cells. Use 10 cc. tap water to measure and to scatter the eggs in a 1/2 in. pit located in the center of the jar of larval media. Cover the eggs with loose media, replace the cloth covers on the jars, and set jars in the insectary so that at least 1.5 in. separates each jar to permit free air circulation. The maximum temperature in the jar (about 3 days later) must not exceed 130° F. Under normal conditions, more than 85 per cent of the eggs should hatch within 36 hours of the time they are laid.

Pupae: Mature larvae migrate to the top portion of the media and normally all larvae will have pupated by the seventh day after seeding eggs. When this occurs, the portion of media containing pupae is loosened, poured into a shallow tray, and air dried at room temperature. An electric fan may be used to hasten drying. Pupae are separated from the dry media by sprinkling the pupae-media mixture on an inclined tray or chute set in front of an air blast such as that from an electric fan. The pupae must be handled gently and as little as possible in order to avoid injury. Under normal conditions, at least 95 per cent of flies will emerge from the pupae.

The separated pupae are thoroughly mixed and weighed in

groups as test units and each group is placed in a shallow dish which is, in turn, placed in a cage which provides at least 1 cu. in. of space per pupae. If the large group procedure is used the test unit consists of approximately 500 pupae. If the small group procedure is used, more than 500 pupae are placed in stock cages and adult flies are sampled prior to testing.

Adult Flies: Each cage is supplied daily with a dish containing at least 15 cc. of a 50 per cent dilution of milk with water for each 100 flies and so prepared as to prevent the flies from drowning. A 40 per cent formalin solution at the rate of 1/1500 delays souring of milk for several hours. Satisfactory food must be available to the flies at all times. The series of test units is kept until the second day of oviposition (usually the 14th day after the culture was prepared) when they are ready for testing. Under normal rearing conditions, at least 80 adult flies should be otained from each 100 eggs seeded.

B. Testing Flies

Before a fly spray test is started, the Peet-Grady chamber must be clean and have clean paper on the floor, all ports and openings must be closed, the temperature must be 82 ±2° F., and all windows must be equally shaded. In both procedures, only flies which are capable of flying may be liberated into the Peet-Grady chamber. In the large group procedure all flies in one cage are used in a single test, but in the small group method a sample of 100 ±5 flies is used in each test. Samples may be taken by liberating the flies directly into the chamber and continuing until about 10 per cent of flies remain in the stock cage. These are discarded. Samples may be taken also by discarding the first 100 flies and then counting 50 flies into each of a series of small cages. One hundred flies are counted into the last cage and then, starting with the next to last cage and working backwards, 50 flies are added to each. Flies remaining in the stock cage are discarded. The order of spray treatments must be randomized as discussed in section IV, paragraph 6.

After liberating the flies in the chamber, a total of 12 cc. of insecticide shall be applied within one minute, at 12.5 lb. pressure, and in equal quantities through each spray hole. The nozzle of the atomizer shall be oscillated slowly in a horizontal plane to avoid spraying walls and ceilings and to effect uniform distribution of the spray. The chamber is kept closed at a constant temperature in the range of 82 ±2° F. for 10 min. from the time the spraying is started. At the end of 10 min. the ports are opened and the chamber is ventilated by means of the exhaust fan while the flies are collected.

The paralyzed flies are picked up and transferred immediately to clean cages meeting the specifications of section II, paragraph D. These flies may be counted when they are picked up or later, depending upon which time is most convenient. During the subsequent 24-hr. recovery period, the cage is placed in the rearing room and supplied with an adequate quantity of a 5 per cent sugar solution, arranged so that the top of the dish is not more than 3/4 inch above the floor of the cage and flies cannot drown in it. A gauze-wrapped ball of cotton saturated with 5 per cent sugar solution is also satisfactory.

The unparalyzed flies in the chamber at the end of the 10-min. exposure period must be counted and discarded.

After a test is completed, all toxic residues must be removed from the chamber. The paper on the floor must be renewed and the inside walls and ceiling must be cleaned thoroughly. Wiping with a clean cloth saturated with alcohol containing 10 per cent acetone or washing with soap and water will remove a number of toxic residues. However, special cleaning precautions may be required after a test with a new chemical compound in order to remove its toxic residue.

C. Assembling the Data

The number of unparalyzed flies must be counted and recorded at the end of the 10-min. exposure period. The dead flies are counted 24 hrs. (±1 hr.) later, preferably by removing them from the recovery cage. Only flies that show no sign of life upon being touched may be counted as dead. If paralyzed flies were counted as they were collected, the sum of paralyzed and unparalyzed flies yields the total flies in the test. If paralyzed flies were not counted as collected, the recovered flies are killed by placing the cage in an oven at 170° F. for a few minutes, after which they are counted. The sum of recovered and dead flies yields the paralyzed flies and this sum added to the unparalyzed flies yields the total flies used in the test. The mortality is the per cent dead of total flies and the knockdown is the per cent paralyzed of total flies.

IV. CONDITIONS FOR OFFICIAL EVALUATION

- The tests shall be conducted in accordance with the procedure previously described.
- At least 2 cultures of flies shall be used in making an official evaluation.
- Cages showing a combined mortality and crippling greater than 8 per cent on the day of test shall not be used.
- An unknown insecticide to be officially rated shall have a knockdown percentage equal to that of the OTI with a tolerance of minus 2.
- 5. The kill by the OTI shall fall between 30 and 55 per cent in all tests. The toxicity of an unknown spray shall be reported by a grade letter, obtained by subtracting the average kill by the OTI from the average kill by the unknown spray and comparing this result with the following figures:

Grade Letter Kill Difference

AA : +16 or greater

A : +6 to +15

B : +5 to -5

(Turn to Page 234)



Caustic Soda

50% and 73% NaOH Liquid Solid 76% Na₂O 76% Na₂O, Fine and Flake Medium Ground and

Powered 76% Na₂O

Columbia Caustic Soda is especially desirable for the manufacture of soap because of its freedom from impurities and metallic contamination. Liquid grades are shipped in special tank cars which first made practical the shipment of 73% Caustic Liquor in its purest form. Insulation effectively prevents crystallization and the patented lining prevents metallic contamination in transit.

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Soda Ash-Light and Dense

The original Columbia chemical. Over a half-century's experience in the manufacture of this essential chemical for soap makers has enabled the development of techniques and controls that

assure uniform density and regularity of physical form and purity.

Pacific Crystals

Pacific Crystals are a true sodium sesquicarbonate-unmodified by mechanical mixing-of a tabular, crystalline structure and fine particle size. They are non-

irritating, free-flowing, non-caking. They mix readily with dry materials and dissolve quickly in water.

The gentle, safe action of Pacific Crystals has made it widely accepted by repackers and compounders for many uses such as soap extenders, water softeners, laundry-textile-dairy-tanner's sodas, dishwashing compounds, silk degummers, general cleaning compounds. Pacific Crystals can be used directly in the crutcher in the manufacture of soap builders. Packed in 100 lb. paper bags.

Ortho-Dichlorobenzene

Columbia Ortho-Dichlorobenzene is a clear, colorless to slightly yellow liquid. Supplied in tank cars (8,000 gallons) and in drums (55 gallons).

Para-Dichlorobenzene

Columbia Para-Dichlorobenzene sublimes readily leaving no residue, is soluble in most organic solvents but is insoluble in water. Available in seven mesh sizes to meet the needs of the soap industry in the manufacture of sanitary specialties and deodorants. Shipped in fiber drums, 200, 100, 50 and 25 lbs. net.

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COLUMBIA CLEANER AND CLEANSER is a specially prepared product for general use in all hand cleaning operations. A white powder containing no harmful inactive ingredients, it dissolves rapidly and completely in water. COLUMBIA PHOSFLAKE is a uniform blend of Caustic Soda and Tri Sodium Phosphate, prepared in convenient flake form. Especially adapted to machine bottle washing-quick acting, easy to handle (minimizes dust particles that irritate the skin and throat of the operator), superior in sterilizing and rinsing properties.

Modified Sodas

Mixtures of Sodium Carbonate and Sodium Bicarbonate, Especially useful in cleansing operations requiring a mild alkaline detergent-aid. Manufactured in three grades-No. 100, No. 200 and No. 300-with different degrees of alkalinity.

COLUMBIA TECHNICAL SERVICE

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CINCINNATI MINNEAPOLIS



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PEET-GRADY METHOD

(From Page 221)

6. In the small group procedure no more than 2 unknown samples may be tested in conjunction with one OTI in any one series. Ten tests are run on the OTI and on each of the unknowns in parallel; that is, test each spray the same number of times on flies of the same culture and test all sprays the same number of times on any one day. The samples of a series must be randomized in the order of testing. For example,

number the samples and the OTI, and test them in the order 1, 2, 3; 2, 1, 3; 3, 2, 1, etc., until each has peen tested ten times. After the mortality data are obtained, calculate the average kills and determine the difference between that of the unknowns and that of the OTI. In order for these differences to be valid, the standard error of the mean difference between the average OTI kill and the average unknown kill must be less than 3. If it is 3 or greater, the test results were too variable and to make the results valid, additional paired tests must be

run to reduce the figure to a value less than 3. The following example illustrates the arrangement of test data and calculations described in the preceding paragraphs. When two unknown samples and the OTI are tested in series, the first table should consist of differences between Sample No. 1 and the OTI, the second table should show differences between Sample 2 and the O.T.I.

6. Small Group Method

			% Dead			Deviation	
Pair	Culture	Date	Sample 1	OTI	Difference1	Deviation1	
1	C	3-8	58	50	+8	+4	16
2	C	8	62	55	+7	+3	9
3	C	8	60	54	+6	+2	4
4	C	8	52	52	+0	-4	16
5	C	8	58 62 60 52 49	46	+3	-1	1
6	E	9	61	54	+7	+3	9
7	E	9	46	49	-3	-7	49
8	E	9	53	51	+2	-2	4
9	E	9	53 57	51 54	+3	-1	1
10	E	9	53	46	+7	+3	9
			55. 1M	51. 1M	+4 MD	0	118 Sum d

¹ Sample 1 kill minus OTI kill.

Deviation from the mean difference (MD).

The mean difference (MD) between Sample 1 kill and the OTI kill is 4.0

The standard error of MD =
$$\sqrt{\frac{\frac{\text{Sum d}^2}{n-1}}{\sqrt{n}}} = \sqrt{\frac{\frac{118}{9}}{\sqrt{10}}} = 1.14$$

7. Large Group Method

Cana	CULTURE E Nov. 21			CULTURE F Nov. 23		
No.	Sample	% Dead		Sample	% Dead	
1	OTI	43		2	69	
2	1	44		3	65	
3	3	57		OTI	54	
4	2	63		3	58	
5	3	52		1	45	
6	OTI	47		2	69 65 54 58 45 77	
7	1	39		1	54	
8	2	71		оті	46	
Sample	Mortalities	A	verage	Rating	Grade	

 Sample
 Mortalities
 Average
 Rating
 Grade

 OTI
 43, 47, 54, 46
 47.5

 1
 44, 39, 45, 54
 45.5
 — 2.0
 B

 2
 63, 71, 69, 77
 70.0
 +22.5
 AA

 3
 57, 52, 65, 58
 58.0
 +10.5
 A

1.14 is less than 3, thus indicating the test has been properly conducted. The letter n (in formula above) denotes the number of paired tests. This number is always 10 except when it is necessary to run additional tests to reduce the standard error of the mean difference to 3 or less.

The percentage kill of Sample 1 minus the percentage kill of OTI is +4, therefore, Sample 1 is a "B" grade insecticide.

7. In the Large Group procedure the evaluation is carried out as follows:

The evaluation is based on the difference in mortality of the OTI and the unknown as determined by a minimum of 4 tests. The order of testing shall be random and replicated OTI tests on any culture shall agree within 10 points. The accompanying example illustrates one arrangement of testing, the computation of the test results, and the grading of the sprays.

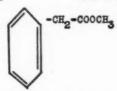
PERFUME SPECIFICATIONS

(From Page 193)

Specifications and Standards METHYL PHENYL ACETATE

C.H.002

Mol. Wt. 150.17



The methyl ester of phenylacetic acid has not been found to occur naturally in volatile oils. The free acid and other esters of phenylacetic acid have been found in a limited number of essential

As a general rule, the simple esters of phenylacetic acid have pronounced honeylike odors and are used for both flavor and odor effects. The free acid and lower esters are also used extensively for syntheses in the pharmaceutical industry.

Preparation

By methanolic esterfication of the corresponding acid or nitrile.

Physical & Chemical Constants

Color and Appearance: Colorless or nearly colorless liquid having an intense

odor suggestive of honey. Specific Gravity at 25°/25°C.: 1.061— 1.066.

Refractive Index at 20°C .: 1.5050-

Halogens: Negative. Proceed as directed for the determination of chlorinated compounds. (See G)

Acid Value: Maximum 1.

Proceed as directed for the determination of acid value. (See E)

Purity: Minimum 98% as CoH10O2

Proceed as directed for the determination of esters using approximately 1.0 gm. sample accurately weighed. (See A)

The number of cc. of half-normal potassium hydroxide solution consumed in the saponification, multiplied by 0.07509, indicates the number of grams of ester calculated as Methyl Phenyl Acetate in the sample taken for assay. Solubility in Alcohol: Soluble in 6

volumes of 60% alcohol.

Descriptive Characteristics

Diethyl Phthalate: Soluble in all pro-

Benzyl Benozate: Soluble in all pro-

Mineral Oil: Insoluble.

Fixed Oils: Soluble in all proportions in most fixed and volatile oils.

Alcohol: Soluble in all proportions.

Propylene Glycol: Insoluble. Water: Insoluble.

Glycerine: Insoluble.

Stability:

Alkali: Unstable in the presence of alkaline materials due to saponification.

Acid: Moderately stable to organic acids and dilute mineral acids.

Containers

Can be shipped in glass, aluminum, tin-lined or steel containers. Good quality galvanized or lacquer lined containers are also suitable provided long storage is not contemplated.

Storage

Store preferably in a cool dry place protected from light.

Specifications and Standards OIL OF LAVANDINE

The plant, a cross or hybrid between spike lavender (Lavendula latifolia, Vill.) and true lavender (Lavendula officinalis, Chaix), is indigenous to altitudes of 500 meters to 2400 meters in sections of southern France and some parts of Spain.

When mature and in full bloom the plants are harvested and the volatile oil separated by means of steam distillation. The yield of oil varies with the altitude and the section, averaging between 1.1% and 2% of the charge. It is used principally for its perfume value.

Other General Names Wild Lavender, Lavande Grosse.

Botanical Nomenclature

Lavandula hybrida, (Rev.). Family: Labiatae.

Preparation

By steam distillation of flowering stalks.

Physical & Chemical Constants

Color and Appearance: Pale yellow to yellow liquid, having a slight camphoraceous and strong lavender like odor.

Specific Gravity at 25°/25°C.: 0.878-

Optical Rotation: -2° to -6°. Solubility: Soluble in 3 volumes of 70% alcohol, sometimes becoming slightly

opalescent with additional solvent. Refractive Index at 20°C.: 1.4610-1.4650.

Esters: 20% to 28%.

Proceed as directed for the determination of esters (see A) using approximately 4 grams of the oil accurately weighed. The number of cc. of 0.5 N alcoholic potassium hydroxide consumed in the saponification, multiplied by 0.0981, indicates the number of grams of esters, calculated as linalyl acetate, in the oil taken for assay.

Descriptive Characteristics

Solubility:

Benzyl Benzoate: Soluble in all proportions

Fixed Oils: Soluble in most fixed oils often with slight opalescence or turbidity.

Glycerine: Relatively insoluble. Mineral Oil: Usually soluble with opal-

Propylene Glycol: Soluble in all pro-

Stability:

Alkali: Unstable in alkalis due to hydrolysis of some of the esters, and the liberation of linalol and other free al-

Acid: In the presence of some organic or inorganic acids a change is noted, the

degree of change depending upon conditions.

Containers

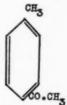
Should be shipped preferably in glass, tin-lined, or aluminum containers. Good quality galvanized containers are suitable when long storage is not contemplated.

Storage

Store preferably in tight, full containers, in a cool place, protected from light.

Specifications and Standards METHYL ACETOPHENONE

C.H10O Mol. Wt. 134.17



Methyl para tolyl ketone, 4 acetyl toluene, 1-methyl-4-acetyl benzene.

Methyl acetophenone is used in perfumery to impart a fruity or floral note to compounds. It has not been found in nature.

Preparation

Methyl Acetophenone may be prepared by the Friedel-Crafts synthesis employing toluene, anhydrous aluminum chloride, and acetic anhydride or acetyl chloride.

Physical & Chemical Properties

Color, Appearance and Odor: It is a colorless or nearly colorless liquid. It has a fruity-floral odor resembling acetophenone

Specific Gravity at 25°/25°: 1.001-

Refractive Index at 20°C.: 1.5320-

Halogens: Negative. Proceed as directed for the determination of chlorinated

compounds. (See G) Purity: 98% minimum by hydroxyl-

amine method. (See D). Use approximately 1.0 gm sample accurately weighed. The difference in cc of N/2 HCl required for both titrations multiplied by 0.06709 indicates the grams of Methyl Acetophenone in the sample.

Descriptive Characteristics

Solubility in Alcohol: Clearly soluble in 10 volumes of 50% alcohol. Stability:

Acids: Stable.

Alkali: Stable.

Solubility:

Benzyl Benzoate: Soluble in all proportions

Diethyl Phthalate: Soluble in all proportions.

Fixed Oils: Soluble in all proportions in most fixed oils.

Mineral Oil: Slightly soluble.

Propylene Glycol: Soluble in all proportions.

Glycerine: Insoluble.

Containers

Should be shipped in glass, aluminum, tin-lined or iron containers.

Storage

No unusual precautions.

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- 3) For aerosol and household sprays and cattle sprays.
- 4) Safe-but-sure.

Packaged in 100 lb. drums.

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- A solution containing 20% methoxychlor in a high flash solvent.
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